## DARF®N<sub>MLCC</sub>

#### CONTENT (MLCC)

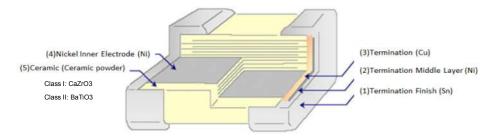
E STANDARD NUMBER
STRUCTURE
ORDERING CODE
GENERAL PURPOSE
Class I: Temperature Compensating Type
CLASS II: HIGH DIELECTRIC CONSTANT TYPE
X5R Series
X6S Series
X6T Series22
X7R Series29
X7S Series
X7T Series
X7U Series40
X8R Series42
TEST SPEC
PACKAGE
OTHERS

#### **E Standard Number**

E3				1.	.0							2.	.2				4.7							
E6	1.0 1.5				2.2				3	.3			4	.7			6	.8						
E12	1	.0	1	.2	1.	.5	1.	.8	2	.2	2	.7	3.	.3	3.	.9	4.	.7	5.	6	6	.8	8	.2
E24	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.3	3.6	3.9	4.3	4.7	5.1	5.6	6.2	6.8	7.5	8.2	9.1



### **Structure**



#### **Ordering Code**

### <u>C 1005 NP0 101 J G T S </u>

PRODUCT CODE -

C = MLCC

SIZE in mm (EIA CODE, in inch) -

0402(01005) 0603(0201) 1005 (0402) 1608 (0603) 2012 (0805) 3216 (1206) 3225(1210) 4520 (1808) 4532 (1812)

T. C.

NP0:  $0 \pm 30$ ppm/°C -55°C to +125°C X5R:  $\pm 15$ % -55°C to +85°C

X7R: ±15% X7S:±22% X7T: +22%/-33% X7U: +22%/-56% -55℃ to +125℃

X6S: ±22% X6T: +22%/-33% -55°C to +105°C

**CAPACITANCE CODE-**

Expressed in pico-farads and identified by a three-digit number. First two digits represent significant figures.

Last digit specifies the number of zeros.

(Use 9 for 1.0 through 9.9pF; Use 8 for 0.20 through 0.99pF)

Code	Cap (pF)
478	0.47
229	2.2
101	100
102	1000

Examples:

#### **TOLERANCE CODE -**

A: ± 0.05pF B: ± 0.1pF C: ± 0.25pF D: ± 0.5pF F: ±1% G: ±2%

J: ±5% K: ±10% M: ±20%

#### **VOLTAGE CODE-**

B: 4V C: 6.3V D: 10V E: 16V F: 25V N: 35V G: 50V H: 100V J: 200V K: 250V L: 500V M: 630V P: 1KV Q: 2KV R: 3KV S: 4KV

#### PACKAGING CODE-

T: Paper tape reel Ø180mm (7")

N: Paper tape reel Ø250mm (10")

P: Embossed tape reel Ø180mm (7")

D: Embossed tape reel Ø250mm (10")

A: Paper tape reel Ø330mm (13")

E: Embossed tape reel Ø330mm (13")

W: Special Packing

#### Application Code -

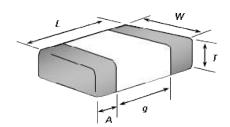
S: Standard Q: High Q/Low ESR F: Microwave A: Automotive Infotainment with AEC-Q200

#### Thickness Code -

Code	Thick (mm)	Code	Thick(mm)	Code	Thick (mm)	Code	Thick (mm)
(blank)	Standard Thick	М	0.70	G	1.25	S	1.90
Z	0.20	D	0.80	Н	1.50		
Α	0.30	Е	0.85	L	1.60		
Q	0.45	I	0.95	N	2.00		
В	0.50	J	1.00	Р	2.50		
С	0.60	F	1.15	R	3.20		

### **General Purpose**

#### Standard External Dimensions



T	YPE		Dimensi	on (mm)		
Size (EIA Size)	Kind	L (Length)	W (Width)	T (Max.)	g (Min)	A (Min/Max)
C0603	Standard	$0.6 \pm 0.03$	$0.30 \pm 0.03$	0.33		0.10 / 0.20
(0201)	Special (1)	$0.6 \pm 0.05$	$0.30 \pm 0.05$	0.35	0.15	0.1070.20
(0201)	Special (2)	$0.6 \pm 0.09$	$0.30 \pm 0.09$	0.39		0.10 / 0.25
	Standard	1.0 ± 0.05	$0.50 \pm 0.05$	0.55		
04005	Special (1)	1.0 ± 0.10	$0.50 \pm 0.10$	0.60		
C1005 (0402)	Special (2)	1.0 ± 0.15	0.50 ± 0.15	0.65	0.30	0.15 / 0.35
(0402)	Special (3)	1				
	Special (4)	1.0 ± 0.30				
	Standard	1.6 ± 0.10	$0.80 \pm 0.10$	0.90		
C1608	Special (1)	1.6 ± 0.15	0.80 ± 0.15	0.95	0.50	0.25 / 0.65
(0603)	Special (2)	1.6 ± 0.20	$0.80 \pm 0.20$	1.00	0.50	0.257 0.05
	Special (3)	1.6 ± 0.25	$0.80 \pm 0.25$	1.05	1	
C2012	Standard	2.0 ± 0.15	1.25 ± 0.15	1.45	0.70	0.25 / 0.75
(0805)	Special (1)	$2.0 \pm 0.20$	1.25 ± 0.20	1.45	0.70	0.237 0.73
02240	Standard	3.2 ± 0.15	1.60 ±0.15	1.80		
C3216 (1206)	Special (1)	$3.2 \pm 0.20$	1.60 ±0.20	1.90	1.50	0.25 / 0.75
(1200)	Special (2)	3.2 ± 0.30	1.60 ±0.30	1.90	1	
C3225	Standard	3.2 ± 0.30	2.50 ± 0.20	2.80	1.50	0.3 / 0.00
(1210)	Special (1)	$3.2 \pm 0.30$	2.50 ± 0.30	2.80	1.50	0.3 / 0.90

For special parts, please see the "Part Number & Characteristic" for detail specification.



### **Class I: Temperature Compensating Type**

#### **Feature**

- 1. Ultra-stable
- 2. Tight tolerance available
- 3. Low ESR (Frequency is within 800MHz)
- 4. Good frequency performance
- No aging of capacitance 5.
- RoHS compliant 6.
- 7. Halogen Free

- **Application** LC and RC tuned circuit 1.
- 2. Filtering
- 3. Timing

#### **Part Number & Characteristic**

C0603NP0\_S Series (EIA0201)

,			Measuring	Capaci	tance		Thick.	Toleran	ice(mm)	DF	Standard
RV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Available Tolerance	(mm)	L/W	Thick.	(max.)	Packing
	C0603NP0208□ GTS	C0603NP0208□ GT	1V, 1MHz	0.20	рF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.25%	
	C0603NP0308□ GTS	C0603NP0308□ GT	1V, 1MHz	0.30	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.25%	
	C0603NP0408□ GTS	C0603NP0408□ GT	1V, 1MHz	0.40	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.25%	
	C0603NP0508□ GTS	C0603NP0508□ GT	1V, 1MHz	0.50	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0608□ GTS	C0603NP0608□ GT	1V, 1MHz	0.60	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0708□ GTS	C0603NP0708□ GT	1V, 1MHz	0.70	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0758□ GTS	C0603NP0758□ GT	1V, 1MHz	0.75	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0808□ GTS	C0603NP0808□ GT	1V, 1MHz	0.80	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0908□ GTS	C0603NP0908□ GT	1V, 1MHz	0.90	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0109□ GTS	C0603NP0109□ GT	1V, 1MHz	1.0	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0119□ GTS	C0603NP0119□ GT	1V, 1MHz	1.1	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0129□ GTS	C0603NP0129□ GT	1V, 1MHz	1.2	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0139 GTS	C0603NP0139□ GT	1V, 1MHz	1.3	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0159□ GTS	C0603NP0159□ GT	1V, 1MHz	1.5	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0169□ GTS	C0603NP0169□ GT	1V, 1MHz	1.6	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0189□ GTS	C0603NP0189□ GT	1V, 1MHz	1.8	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0209□ GTS	C0603NP0209□ GT	1V, 1MHz	2.0	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0229□ GTS	C0603NP0229□ GT	1V, 1MHz	2.2	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0249□ GTS	C0603NP0249□ GT	1V, 1MHz	2.4	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.22%	
	C0603NP0279□ GTS	C0603NP0279□ GT	1V, 1MHz	2.7	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.22%	
	C0603NP0309□ GTS	C0603NP0309□ GT	1V, 1MHz	3.0	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.22%	
	C0603NP0339□ GTS	C0603NP0339□ GT	1V, 1MHz	3.3	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0359□ GTS	C0603NP0359□ GT	1V, 1MHz	3.5	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0369□ GTS	C0603NP0369□ GT	1V, 1MHz	3.6	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0399□ GTS	C0603NP0399□ GT	1V, 1MHz	3.9	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0409□ GTS	C0603NP0409□ GT	1V, 1MHz	4.0	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0439□ GTS	C0603NP0439□ GT	1V, 1MHz	4.3	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0479 GTS	C0603NP0479□ GT	1V, 1MHz	4.7	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.20%	
	C0603NP0509□ GTS	C0603NP0509□ GT	1V, 1MHz	5.0	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.20%	
VC	C0603NP0519□ GTS	C0603NP0519□ GT	1V, 1MHz	5.1	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.20%	Paper,15Kpcs
	C0603NP0569□ GTS	C0603NP0569□ GT	1V, 1MHz	5.6	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.20%	
	C0603NP0609□ GTS	C0603NP0609□ GT	1V, 1MHz	6.0	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.19%	
	C0603NP0629□ GTS	C0603NP0629□ GT	1V, 1MHz	6.2	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.19%	
	C0603NP0689□ GTS	C0603NP0689□ GT	1V, 1MHz	6.8	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.19%	
	C0603NP0709□ GTS	C0603NP0709□ GT	1V, 1MHz	7.0	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.19%	
	C0603NP0759□ GTS	C0603NP0759□ GT	1V, 1MHz	7.5	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.18%	
	C0603NP0809□ GTS	C0603NP0809□ GT	1V, 1MHz	8.0	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.18%	
	C0603NP0829□ GTS	C0603NP0829□ GT	1V, 1MHz	8.2	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.18%	
	C0603NP0909□ GTS	C0603NP0909□ GT	1V, 1MHz	9.0	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.17%	
	C0603NP0919□ GTS	C0603NP0919□ GT	1V, 1MHz	9.1	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.17%	
	C0603NP0100□ GTS	C0603NP0100□ GT	1V, 1MHz	10	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.17%	
	C0603NP0120 GTS	C0603NP0120 GT	1V, 1MHz	12	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.16%	
	C0603NP0150 GTS	C0603NP0150 GT	1V, 1MHz	15	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.14%	
	C0603NP0180 GTS	C0603NP0180 GT	1V, 1MHz	18	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.13%	
	C0603NP0200 GTS	C0603NP0200 GT	1V, 1MHz	20	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.13%	
	C0603NP0220 GTS	C0603NP0220 GT	1V, 1MHz	22	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.12%	
	C0603NP0240JGTS	C0603NP0240JGT	1V, 1MHz	24	pF	±5%	0.30	±0.03	±0.03	0.11%	
	C0603NP0270□ GTS	C0603NP0270□ GT	1V, 1MHz	27	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.11%	
	C0603NP0300 GTS	C0603NP0300□ GT	1V, 1MHz	30	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%	
	C0603NP0330 GTS	C0603NP0330 GT	1V, 1MHz	33	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%	
	C0603NP0360 GTS	C0603NP0360□ GT	1V, 1MHz	36	pF	±5%,±2%	0.30	±0.03	±0.03	0.10%	
	C0603NP0390 GTS	C0603NP0390 GT	1V, 1MHz	39	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%	
	C0603NP0430JGTS	C0603NP0430JGT	1V, 1MHz	43	pF	±5%	0.30	±0.03	±0.03	0.10%	
	C0603NP0470 GTS	C0603NP0470 GT	1V, 1MHz	47	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%	
	C0603NP0510□ GTS	C0603NP0510□ GT	1V, 1MHz	51	pF	±5%,±2%	0.30	±0.03	±0.03	0.10%	
	C0603NP0560 GTS	C0603NP0560 GT	1V, 1MHz	56	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%	
	C0603NP0620 GTS	C0603NP0620□ GT	1V, 1MHz	62	pF	±5%,±2%	0.30	±0.03	±0.03	0.10%	
	C0603NP0680 GTS	C0603NP0680 GT	1V, 1MHz	68	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%	
	C0603NP0750 GTS	C0603NP0750□ GT	1V, 1MHz	75	pF	±5%,±2%	0.30	±0.03	±0.03	0.10%	

			Measuring	Capaci	tance		Thick.	Toleran	ice(mm)	DF	Standard
RV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Available Tolerance	(mm)	L/W	Thick.	(max.)	Packing
	C0603NP0820□ GTS	C0603NP0820□ GT	1V, 1MHz	82	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%	-
	C0603NP0101□ GTS	C0603NP0101□ GT	1V, 1MHz	100	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%	
	C0603NP0121 GTS	C0603NP0121 GT	1V, 1MHz	120	pF	±5%,±2%	0.30	±0.03	±0.03	0.10%	
	C0603NP0151 GTS	C0603NP0151□ GT	1V, 1MHz	150	pF	±5%,±2%	0.30	±0.03	±0.03	0.10%	
50V	C0603NP0181 GTS C0603NP0201JGTS	C0603NP0181 <sub>□</sub> GT C0603NP0201JGT	1V, 1MHz 1V, 1MHz	180 200	pF pF	±5%,±2% ±5%	0.30	±0.03	±0.03 ±0.03	0.10%	Paper,15Kpcs
301	C0603NP0221 GTS	C0603NP0221 GT	1V, 1MHz	220	рF	±5%,±2%	0.30	±0.03	±0.03	0.10%	r aper, rorepes
	C0603NP0271JGTS	C0603NP0271JGT	1V, 1MHz	270	pF	±5%	0.30	±0.03	±0.03	0.10%	
	C0603NP0331JGTS	C0603NP0331JGT	1V, 1MHz	330	pF	±5%	0.30	±0.03	±0.03	0.10%	
	C0603NP0391JGTS	C0603NP0391JGT	1V, 1MHz	390	pF	±5%	0.30	±0.03	±0.03	0.10%	
	C0603NP0471JGTS	C0603NP0471JGT	1V, 1MHz 1V, 1MHz	470 0.20	pF	±5% ±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03 ±0.03	0.10%	
	C0603NP0208□ FTS C0603NP0308□ FTS	C0603NP0208□ FT C0603NP0308□ FT	1V, 1MHz	0.20	pF pF	±0.25pF,±0.1pF,±0.05pF ±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.25%	
	C0603NP0408□ FTS	C0603NP0408 FT	1V, 1MHz	0.40	рF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.25%	
	C0603NP0508□ FTS	C0603NP0508□ FT	1V, 1MHz	0.50	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0608□ FTS	C0603NP0608□ FT	1V, 1MHz	0.60	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0708□ FTS	C0603NP0708□ FT	1V, 1MHz	0.70	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0758□ FTS	C0603NP0758□ FT	1V, 1MHz	0.75	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0808□ FTS C0603NP0908□ FTS	C0603NP0808□ FT C0603NP0908□ FT	1V, 1MHz 1V, 1MHz	0.80	pF pF	±0.25pF,±0.1pF,±0.05pF ±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03 ±0.03	0.24%	
	C0603NP0109□ FTS	C0603NP0109□ FT	1V, 1MHz	1.0	рF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0129□ FTS	C0603NP0129□ FT	1V, 1MHz	1.2	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0139□ FTS	C0603NP0139□ FT	1V, 1MHz	1.3	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0149□ FTS	C0603NP0149□ FT	1V, 1MHz	1.4	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0159□ FTS	C0603NP0159□ FT	1V, 1MHz	1.5	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0169□ FTS C0603NP0179□ FTS	C0603NP0169□ FT C0603NP0179□ FT	1V, 1MHz 1V, 1MHz	1.6 1.7	pF pF	±0.25pF,±0.1pF ±0.25pF,±0.1pF	0.30	±0.03	±0.03 ±0.03	0.23%	
	C0603NP0189□ FTS	C0603NP0189□ FT	1V, 1MHz	1.8	рF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0199□ FTS	C0603NP0199□ FT	1V, 1MHz	1.9	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0209□ FTS	C0603NP0209□ FT	1V, 1MHz	2.0	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0229□ FTS	C0603NP0229□ FT	1V, 1MHz	2.2	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0249 FTS	C0603NP0249□ FT	1V, 1MHz	2.4	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.22%	
	C0603NP0279□ FTS C0603NP0309□ FTS	C0603NP0279□ FT C0603NP0309□ FT	1V, 1MHz 1V, 1MHz	2.7 3.0	pF pF	±0.25pF,±0.1pF ±0.25pF,±0.1pF	0.30	±0.03	±0.03 ±0.03	0.22%	
	C0603NP0339 FTS	C0603NP0339□ FT	1V, 1MHz	3.3	рF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.22%	
	C0603NP0359□ FTS	C0603NP0359□ FT	1V, 1MHz	3.5	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0369□ FTS	C0603NP0369□ FT	1V, 1MHz	3.6	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0399□ FTS	C0603NP0399□ FT	1V, 1MHz	3.9	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0409□ FTS	C0603NP0409□ FT	1V, 1MHz 1V, 1MHz	4.0	pF pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03 ±0.03	0.21%	
	C0603NP0439□ FTS C0603NP0479□ FTS	C0603NP0439□ FT C0603NP0479□ FT	1V, 1MHz	4.3	pF	±0.25pF,±0.1pF ±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0509□ FTS	C0603NP0509□ FT	1V, 1MHz	5.0	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.20%	
	C0603NP0519□ FTS	C0603NP0519□ FT	1V, 1MHz	5.1	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.20%	
	C0603NP0569□ FTS	C0603NP0569□ FT	1V, 1MHz	5.6	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.20%	
25V	C0603NP0609□ FTS	C0603NP0609□ FT	1V, 1MHz	6.0	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.19%	Paper,15Kpcs
	C0603NP0629□ FTS C0603NP0689□ FTS	C0603NP0629□ FT C0603NP0689□ FT	1V, 1MHz 1V, 1MHz	6.2	pF pF	±0.5pF,±0.25pF,±0.1pF ±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03 ±0.03	0.19%	
	C0603NP0709□ FTS	C0603NP0709□ FT	1V, 1MHz	7.0	рF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.19%	
	C0603NP0759□ FTS	C0603NP0759□ FT	1V, 1MHz	7.5	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.18%	
	C0603NP0809□ FTS	C0603NP0809□ FT	1V, 1MHz	8.0	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.18%	
	C0603NP0829□ FTS	C0603NP0829 FT	1V, 1MHz	8.2	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.18%	
	C0603NP0909□ FTS	C0603NP0909□ FT	1V, 1MHz	9.0	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.17%	
	C0603NP0919□ FTS C0603NP0100□ FTS	C0603NP0919□ FT C0603NP0100□ FT	1V, 1MHz 1V, 1MHz	9.1	pF pF	±0.5pF,±0.25pF,±0.1pF ±5%,±2%,±1%	0.30	±0.03	±0.03 ±0.03	0.17%	
	C0603NP0120 FTS	C0603NP0120 FT	1V, 1MHz	12	рF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.16%	
	C0603NP0150□ FTS	C0603NP0150□ FT	1V, 1MHz	15	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.14%	
	C0603NP0160□ FTS	C0603NP0160□ FT	1V, 1MHz	16	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.14%	
	C0603NP0180 FTS	C0603NP0180 FT	1V, 1MHz	18	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.13%	
	C0603NP0200□ FTS C0603NP0220□ FTS	C0603NP0200□ FT C0603NP0220□ FT	1V, 1MHz 1V, 1MHz	20	pF pF	±5%,±2%,±1% ±5%,±2%,±1%	0.30	±0.03	±0.03 ±0.03	0.13%	
	C0603NP0240 FTS	C0603NP0240 FT	1V, 1MHz	24	рF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.12%	
	C0603NP0270□ FTS	C0603NP0270□ FT	1V, 1MHz	27	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.11%	
	C0603NP0300□ FTS	C0603NP0300□ FT	1V, 1MHz	30	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%	
	C0603NP0330□ FTS	C0603NP0330□ FT	1V, 1MHz	33	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%	
	C0603NP0390□ FTS	C0603NP0390□ FT	1V, 1MHz	39	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%	
	C0603NP0470□ FTS C0603NP0560□ FTS	C0603NP0470□ FT C0603NP0560□ FT	1V, 1MHz	47	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%	
	C0603NP0680 FTS	C0603NP0560 FT	1V, 1MHz 1V, 1MHz	56 68	pF pF	±5%,±2%,±1% ±5%,±2%,±1%	0.30	±0.03	±0.03 ±0.03	0.10%	
	C0603NP0820 FTS	C0603NP0820□ FT	1V, 1MHz	82	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%	
	C0603NP0101□ FTS	C0603NP0101□ FT	1V, 1MHz	100	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%	
	C0603NP0121JFTS	C0603NP0121JFT	1V, 1MHz	120	pF	±5%	0.30	±0.03	±0.03	0.10%	
	C0603NP0151JFTS	C0603NP0151JFT	1V, 1MHz	150	pF	±5%	0.30	±0.03	±0.03	0.10%	
	C0603NP0181JFTS C0603NP0221JFTS	C0603NP0181JFT	1V, 1MHz	180 220	pF pE	±5%	0.30	±0.03	±0.03 ±0.03	0.10%	
	C0603NP0221JFTS	C0603NP0221JFT C0603NP0271JFT	1V, 1MHz 1V, 1MHz	270	pF pF	±5% ±5%	0.30	±0.03	±0.03	0.10%	
	C0603NP0331p FTS	C0603NP0331□ FT	1V, 1MHz	330	pF	±5%,±2%	0.30	±0.03	±0.03	0.10%	
	C0603NP0391JFTS	C0603NP0391JFT	1V, 1MHz	390	pF	±5%	0.30	±0.03	±0.03	0.10%	
	C0603NP0471  FTS	C0603NP0471 FT	1V, 1MHz	470	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%	



RV	DARFON P/N	DARFON P/N 2	Measuring	Capaci	tance	Available Tolerance	Thick.	Toleran	ce(mm)	DF	Standard
ΚV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Available Tolerance	(mm)	L/W	Thick.	(max.)	Packing
	C0603NP0561JFTS	C0603NP0561JFT	1V, 1MHz	560	pF	±5%	0.30	±0.03	±0.03	0.10%	
25V	C0603NP0681JFTS	C0603NP0681JFT	1V, 1MHz	680	pF	±5%	0.30	±0.03	±0.03	0.10%	Paper,15Kpcs
	C0603NP0102JFTS	C0603NP0102JFT	1V, 1MHz	1.0	nF	±5%	0.30	±0.03	±0.03	0.10%	
	C0603NP0279 ETS	C0603NP0279□ ET	1V, 1MHz	2.7	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.22%	
16V	C0603NP0330 ETS	C0603NP0330□ ET	1V, 1MHz	33	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%	Paper,15Kpcs
100	C0603NP0201JETS	C0603NP0201JET	1V, 1MHz	200	pF	±5%	0.30	±0.03	±0.03	0.10%	rapei, ionpus
	C0603NP0221JETS	C0603NP0221JET	1V, 1MHz	220	pF	±5%	0.30	±0.03	±0.03	0.10%	
10V	C0603NP0330□ DTS	C0603NP0330□ DT	1V, 1MHz	33	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%	Paper,15Kpcs

### • C1005NP0\_S Series (EIA0402)

			Measuring	Capaci	tance		Thick.	Toleran	ce(mm)	DF	Standard
RV	DARFON P/N	DARFON P/N 2	Condition		Unit	Available Tolerance	(mm)	L/W	Thick.	(max.)	Packing
	C1005NP0208□ GTS	C1005NP0208□ GT	1V, 1MHz	0.20	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.25%	
	C1005NP0308 GTS	C1005NP0308 GT	1V, 1MHz	0.30	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.25%	
	C1005NP0408 GTS	C1005NP0408 GT	1V, 1MHz	0.40	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.25%	
	C1005NP0508 GTS C1005NP0608 GTS	C1005NP0508□ GT C1005NP0608□ GT	1V, 1MHz 1V, 1MHz	0.50	pF pF	±0.25pF,±0.1pF,±0.05pF ±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05 ±0.05	0.24%	
	C1005NP0688 GTS	C1005NP0688 GT	1V, 1MHz	0.68	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.24%	
	C1005NP0708 GTS	C1005NP0708 GT	1V, 1MHz	0.70	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.24%	
	C1005NP0808□ GTS	C1005NP0808□ GT	1V, 1MHz	0.80	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.24%	
	C1005NP0828□ GTS	C1005NP0828□ GT	1V, 1MHz	0.82	рF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.24%	
	C1005NP0908 GTS	C1005NP0908□ GT	1V, 1MHz	0.90	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.24%	
	C1005NP0109 GTS	C1005NP0109 GT	1V, 1MHz	1.0	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.24%	
	C1005NP0129 GTS C1005NP0139 GTS	C1005NP0129 GT C1005NP0139 GT	1V, 1MHz 1V, 1MHz	1.2	pF pF	±0.25pF,±0.1pF,±0.05pF ±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05 ±0.05	0.24%	
	C1005NP0159 GTS	C1005NP0159 GT	1V, 1MHz	1.5	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.23%	
	C1005NP0169 GTS	C1005NP0169 GT	1V, 1MHz	1.6	pF	±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.23%	
	C1005NP0189□ GTS	C1005NP0189□ GT	1V, 1MHz	1.8	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.23%	
	C1005NP0209□ GTS	C1005NP0209□ GT	1V, 1MHz	2.0	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.23%	
	C1005NP0229 GTS	C1005NP0229□ GT	1V, 1MHz	2.2	рF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.23%	
	C1005NP0249 GTS	C1005NP0249 GT	1V, 1MHz	2.4	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.22%	
	C1005NP0259 GTS	C1005NP0259 GT	1V, 1MHz 1V, 1MHz	2.5	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.22%	
	C1005NP0279 GTS C1005NP0309 GTS	C1005NP0279□ GT C1005NP0309□ GT	1V, 1MHz	2.7 3.0	pF pF	±0.25pF,±0.1pF,±0.05pF ±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05 ±0.05	0.22%	
	C1005NP0339 GTS	C1005NP0339 GT	1V, 1MHz	3.3	рF	±0.5pF,±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.21%	
	C1005NP0359 GTS	C1005NP0359 GT	1V, 1MHz	3.5	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.21%	
	C1005NP0369□ GTS	C1005NP0369□ GT	1V, 1MHz	3.6	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.21%	
	C1005NP0399□ GTS	C1005NP0399□ GT	1V, 1MHz	3.9	рF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.21%	
	C1005NP0409 GTS	C1005NP0409□ GT	1V, 1MHz	4.0	рF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.21%	
	C1005NP0439 GTS	C1005NP0439 GT	1V, 1MHz	4.3	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.21%	
	C1005NP0479 GTS	C1005NP0479 GT	1V, 1MHz 1V, 1MHz	4.7 5.0	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.20%	
	C1005NP0509 GTS C1005NP0519 GTS	C1005NP0509□ GT C1005NP0519□ GT	1V, 1MHz	5.1	pF pF	±0.5pF,±0.25pF,±0.1pF,±0.05pF ±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05 ±0.05	0.20%	
	C1005NP0569 GTS	C1005NP0569 GT	1V, 1MHz	5.6	рF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.20%	
	C1005NP0609□ GTS	C1005NP0609□ GT	1V, 1MHz	6.0	pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.19%	
	C1005NP0629□ GTS	C1005NP0629□ GT	1V, 1MHz	6.2	pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.19%	
	C1005NP0689□ GTS	C1005NP0689□ GT	1V, 1MHz	6.8	pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.19%	
50V	C1005NP0709 GTS	C1005NP0709 GT	1V, 1MHz	7.0	pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.19%	Paper, 10Kpcs
	C1005NP0759 GTS	C1005NP0759 GT	1V, 1MHz	7.5 8.0	pF pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05 ±0.05	0.18%	, , ,
	C1005NP0809 GTS C1005NP0829 GTS	C1005NP0809□ GT C1005NP0829□ GT	1V, 1MHz 1V, 1MHz	8.2	pF	±0.5pF,±0.25pF,±0.1pF ±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.18%	
	C1005NP0909 GTS	C1005NP0909 GT	1V, 1MHz	9.0	рF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.17%	
	C1005NP0919□ GTS	C1005NP0919□ GT	1V, 1MHz	9.1	pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.17%	
	C1005NP0100□ GTS	C1005NP0100□ GT	1V, 1MHz	10	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.17%	
	C1005NP0110 GTS	C1005NP0110□ GT	1V, 1MHz	11	рF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.16%	
	C1005NP0120 GTS	C1005NP0120 GT	1V, 1MHz	12	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.16%	
	C1005NP0130 GTS C1005NP0150 GTS	C1005NP0130 GT C1005NP0150 GT	1V, 1MHz	13	pF	±5%,±2%	0.50	±0.05	±0.05	0.15%	
	C1005NP0150 GTS	C1005NP0150 GT	1V, 1MHz 1V, 1MHz	15 16	pF pF	±5%,±2%,±1% ±5%,±2%,±1%	0.50	±0.05	±0.05 ±0.05	0.14%	
	C1005NP0180 GTS	C1005NP0180 GT	1V, 1MHz	18	рF	±10%,±5%,±2%,±1%	0.50	±0.05	±0.05	0.13%	
	C1005NP0200 GTS	C1005NP0200 GT	1V, 1MHz	20	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.13%	
	C1005NP0220□ GTS	C1005NP0220□ GT	1V, 1MHz	22	pF	±10% ,±5%,±2%,±1%	0.50	±0.05	±0.05	0.12%	
	C1005NP0240□ GTS	C1005NP0240 GT	1V, 1MHz	24	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.11%	
	C1005NP0270 GTS	C1005NP0270 GT	1V, 1MHz	27	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.11%	
	C1005NP0300 GTS	C1005NP0300 GT	1V, 1MHz	30	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0330 GTS C1005NP0360 GTS	C1005NP0330 GT C1005NP0360 GT	1V, 1MHz 1V, 1MHz	33 36	pF pF	±10% ,±5%,±2%,±1% ±5%,±2%,±1%	0.50	±0.05	±0.05 ±0.05	0.10%	
	C1005NP0390 GTS	C1005NP0390 GT	1V, 1MHz	39	рF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0430 GTS	C1005NP0430□ GT	1V, 1MHz	43	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0470 GTS	C1005NP0470□ GT	1V, 1MHz	47	pF	±10% ,±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0510□ GTS	C1005NP0510□ GT	1V, 1MHz	51	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0560 GTS	C1005NP0560 GT	1V, 1MHz	56	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0620 GTS	C1005NP0620 GT	1V, 1MHz	62	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0680 GTS	C1005NP0680 GT	1V, 1MHz	68	pF	±5%,±2%,±1% ±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0750 GTS	C1005NP0750□ GT C1005NP0820□ GT	1V, 1MHz 1V, 1MHz	75 82	pF pF	±5%,±2%,±1% ±5%,±2%,±1%	0.50	±0.05	±0.05 ±0.05	0.10%	
	C1005NP0920 GTS	C1005NP0910 GT	1V, 1MHz	91	pF	±5%,±2%,±1% ±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0101 GTS	C1005NP0101 GT	1V, 1MHz	100	рF	±10% ,±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0121 GTS	C1005NP0121 <sub>□</sub> GT	1V, 1MHz	120	pF	±10% ,±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0131JGTS	C1005NP0131JGT	1V, 1MHz	130	pF	±5%	0.50	±0.05	±0.05	0.10%	
	C1005NP0151 GTS	C1005NP0151 GT	1V, 1MHz	150	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0181 GTS	C1005NP0181 GT	1V, 1MHz	180	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0201 GTS	C1005NP0201 GT	1V, 1MHz	200	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0221 GTS	C1005NP0221 GT	1V, 1MHz	220	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	

 $<sup>\ \</sup>square$  Tolerance Code: A=±0.05 pF, B=±0.1pF, C=±0.25pF ,D=±0.5pF, F=±1%, G=±2%, J=±5%; Special tolerance on the request.

RV	DARFON P/N	DARFON P/N 2	Measuring	Capaci	tance	Aveilable Televanes	Thick.	Tolerar	ice(mm)	DF	Standard
κv	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Available Tolerance	(mm)	L/W	Thick.	(max.)	Packing
	C1005NP0271 GTS	C1005NP0271 GT	1V, 1MHz	270	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0301 GTS	C1005NP0301 GT	1V, 1MHz	300	рF	±5%,±2%	0.50	±0.05	±0.05	0.10%	
	C1005NP0331 GTS	C1005NP0331 GT	1V, 1MHz	330	pF	±5%,±2%	0.50	±0.05	±0.05	0.10%	
	C1005NP0391 GTS	C1005NP0391 GT	1V, 1MHz	390	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0471 GTS	C1005NP0471 GT	1V, 1MHz	470	рF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
50V	C1005NP0561 GTS	C1005NP0561 GT	1V, 1MHz	560	рF	±5%,±2%	0.50	±0.05	±0.05	0.10%	Paper, 10Kpcs
	C1005NP0681 GTS	C1005NP0681 GT	1V, 1MHz	680	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0751JGTS	C1005NP0751JGT	1V, 1MHz	750	pF	±5%	0.50	±0.05	±0.05	0.10%	
	C1005NP0821 GTS	C1005NP0821 GT	1V, 1MHz	820	pF	±5%,±2%	0.50	±0.05	±0.05	0.10%	
	C1005NP0102 GTS	C1005NP0102 GT	1V, 1MHz	1.0	nF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0152JGTS	C1005NP0152JGT	1V, 1kHz	1.5	nF	±5%	0.50	±0.05	±0.05	0.10%	
	C1005NP0208 FTS	C1005NP0208□ FT	1V, 1MHz	0.2	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.25%	
	C1005NP0308 FTS	C1005NP0308 FT	1V, 1MHz	0.3	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.25%	
	C1005NP0508 FTS	C1005NP0508 FT	1V, 1MHz	0.5	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.24%	
	C1005NP0169BFTS	C1005NP0169BFT	1V, 1MHz	1.6	pF	±0.1pF	0.50	±0.05	±0.05	0.23%	
	C1005NP0689  FTS	C1005NP0689 FT	1V, 1MHz	6.8	pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.19%	
	C1005NP0100JFTS	C1005NP0100JFT	1V, 1MHz	10	pF	±5%	0.50	±0.05	±0.05	0.17%	
	C1005NP0120 FTS	C1005NP0120 FT	1V, 1MHz	12	рF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.16%	
	C1005NP0160JFTS	C1005NP0160JFT	1V, 1MHz	16	рF	±5%	0.50	±0.05	±0.05	0.14%	
	C1005NP0180KFTS	C1005NP0180KFT	1V, 1MHz	18	pF	±10%	0.50	±0.05	±0.05	0.14%	
			,	22			0.50			0.13%	
	C1005NP0220JFTS	C1005NP0220JFT	1V, 1MHz		pF	±5%		±0.05	±0.05		
	C1005NP0240JFTS C1005NP0270JFTS	C1005NP0240JFT C1005NP0270JFT	1V, 1MHz 1V, 1MHz	24 27	pF	±5% ±5%	0.50	±0.05	±0.05 ±0.05	0.11%	
			,		pF			±0.05			
25V	C1005NP0330□ FTS	C1005NP0330□ FT	1V, 1MHz	33	pF	±10% ,±5%	0.50	±0.05	±0.05	0.10%	Paper, 10Kpcs
	C1005NP0470JFTS	C1005NP0470JFT	1V, 1MHz	47	pF	±5%	0.50	±0.05	±0.05	0.10%	
	C1005NP0560JFTS	C1005NP0560JFT	1V, 1MHz	56	pF	±5%	0.50	±0.05	±0.05	0.10%	
	C1005NP0101JFTS	C1005NP0101JFT	1V, 1MHz	100	pF	±5%	0.50	±0.05	±0.05	0.10%	
	C1005NP0201JFTS	C1005NP0201JFT	1V, 1MHz	200	pF	±5%	0.50	±0.05	±0.05	0.10%	
	C1005NP0221 FTS	C1005NP0221 FT	1V, 1MHz	220	pF	±10% ,±5%	0.50	±0.05	±0.05	0.10%	
	C1005NP0271JFTS	C1005NP0271JFT	1V, 1MHz	270	pF	±5%	0.50	±0.05	±0.05	0.10%	
	C1005NP0331JFTS	C1005NP0331JFT	1V, 1MHz	330	pF	±5%	0.50	±0.05	±0.05	0.10%	
	C1005NP0471JFTS	C1005NP0471JFT	1V, 1MHz	470	pF	±5%	0.50	±0.05	±0.05	0.10%	
	C1005NP0561JFTS	C1005NP0561JFT	1V, 1MHz	560	pF	±5%	0.50	±0.05	±0.05	0.10%	
	C1005NP0102JFTS	C1005NP0102JFT	1V, 1MHz	1.0	nF	±5%	0.50	±0.05	±0.05	0.10%	
	C1005NP0152JFTS	C1005NP0152JFT	1V, 1kHz	1.5	nF	±5%	0.50	±0.05	±0.05	0.10%	
	C1005NP0182JFTS	C1005NP0182JFT	1V, 1kHz	1.8	nF	±5%	0.50	±0.05	±0.05	0.10%	
	C1005NP0222JFTS	C1005NP0222JFT	1V, 1kHz	2.2	nF	±5%	0.50	±0.05	±0.05	0.10%	
	C1005NP0109BETS	C1005NP0109BET	1V, 1MHz	1.0	pF	±0.1pF	0.50	±0.05	±0.05	0.24%	
	C1005NP0129BETS	C1005NP0129BET	1V, 1MHz	1.2	pF	±0.1pF	0.50	±0.05	±0.05	0.24%	
	C1005NP0209BETS	C1005NP0209BET	1V, 1MHz	2.0	pF	±0.1pF	0.50	±0.05	±0.05	0.23%	
	C1005NP0100JETS	C1005NP0100JET	1V, 1MHz	10	pF	±5%	0.50	±0.05	±0.05	0.17%	
	C1005NP0150 ETS	C1005NP0150 ET	1V, 1MHz	15	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.14%	
16V	C1005NP0220FETS	C1005NP0220FET	1V, 1MHz	22	pF	±1%	0.50	±0.05	±0.05	0.12%	Paper, 10Kpcs
	C1005NP0300JETS	C1005NP0300JET	1V, 1MHz	30	pF	±5%	0.50	±0.05	±0.05	0.10%	. apoi, 1010pcs
	C1005NP0470□ ETS	C1005NP0470 ET	1V, 1MHz	47	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%	
	C1005NP0101JETS	C1005NP0101JET	1V, 1MHz	100	pF	±5%	0.50	±0.05	±0.05	0.10%	
	C1005NP0331 ETS	C1005NP0331  ET	1V, 1MHz	330	pF	±5%,±2%	0.50	±0.05	±0.05	0.10%	
	C1005NP0471JETS	C1005NP0471JET	1V, 1MHz	470	pF	±5%	0.50	±0.05	±0.05	0.10%	
	C1005NP0102JETS	C1005NP0102JET	1V, 1MHz	1.0	nF	±5%	0.50	±0.05	±0.05	0.10%	
10V	C1005NP0220 DTS	C1005NP0220 DT	1V, 1MHz	22	рF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.12%	Paper, 10Kpcs

### • C1608NP0\_S Series (EIA0603)

D) /	DARFON BAN	DADEON BALO	Measuring	Capaci	tance	A	Thick.	Toleran	ce(mm)	DF	Standard
RV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Available Tolerance	(mm)	L/W	Thick.	(max.)	Packing
	C1608NP0308 GTS	C1608NP0308 GT	1V, 1MHz	0.30	рF	±0.25pF,±0.1pF,±0.05pF	0.80	±0.10	±0.10	0.25%	
	C1608NP0478 GTS	C1608NP0478 GT	1V, 1MHz	0.47	pF	±0.25pF,±0.1pF,±0.05pF	0.80	±0.10	±0.10	0.24%	
	C1608NP0508 GTS	C1608NP0508□ GT	1V, 1MHz	0.50	рF	±0.25pF,±0.1pF,±0.05pF	0.80	±0.10	±0.10	0.24%	
	C1608NP0568□ GTS	C1608NP0568□ GT	1V, 1MHz	0.56	pF	±0.25pF,±0.1pF,±0.05pF	0.80	±0.10	±0.10	0.24%	
	C1608NP0688 GTS	C1608NP0688□ GT	1V, 1MHz	0.68	pF	±0.25pF,±0.1pF,±0.05pF	0.80	±0.10	±0.10	0.24%	
	C1608NP0758 GTS	C1608NP0758□ GT	1V, 1MHz	0.75	pF	±0.25pF,±0.1pF,±0.05pF	0.80	±0.10	±0.10	0.24%	
	C1608NP0828 GTS	C1608NP0828 GT	1V, 1MHz	0.82	pF	±0.25pF,±0.1pF,±0.05pF	0.80	±0.10	±0.10	0.24%	
	C1608NP0109 GTS	C1608NP0109□ GT	1V, 1MHz	1.0	pF	±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.24%	
	C1608NP0129 GTS	C1608NP0129 GT	1V, 1MHz	1.2	pF	±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.24%	
	C1608NP0159 GTS	C1608NP0159□ GT	1V, 1MHz	1.5	pF	±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.23%	
	C1608NP0189  GTS	C1608NP0189 GT	1V, 1MHz	1.8	pF	±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.23%	
	C1608NP0209 GTS	C1608NP0209 GT	1V, 1MHz	2.0	pF	±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.23%	
	C1608NP0229 GTS	C1608NP0229 GT	1V, 1MHz	2.2	pF	±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.23%	
	C1608NP0249 GTS	C1608NP0249 GT	1V, 1MHz	2.4	pF	±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.22%	
	C1608NP0279□ GTS	C1608NP0279 GT	1V, 1MHz	2.7	pF	±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.22%	
	C1608NP0309 GTS	C1608NP0309 GT	1V, 1MHz	3.0	pF	±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.22%	
	C1608NP0339 GTS	C1608NP0339 GT	1V, 1MHz	3.3	pF	±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.21%	
	C1608NP0399□ GTS	C1608NP0399□ GT	1V, 1MHz	3.9	pF	±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.21%	
	C1608NP0409 GTS	C1608NP0409 GT	1V, 1MHz	4.0	pF	±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.21%	
	C1608NP0479 GTS	C1608NP0479 GT	1V, 1MHz	4.7	pF	±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.20%	
	C1608NP0509 GTS	C1608NP0509□ GT	1V, 1MHz	5.0	pF	±0.5pF,±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.20%	
	C1608NP0569□ GTS C1608NP0609□ GTS	C1608NP0569 GT C1608NP0609 GT	1V, 1MHz	5.6 6.0	рF	±0.5pF,±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.20%	
	C1608NP0629 GTS	C1608NP0629 GT	1V, 1MHz	6.2	рF	±0.5pF,±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.19%	
	C1608NP0629 GTS	C1608NP0689 GT	1V, 1MHz 1V, 1MHz	6.8	pF pF	±0.5pF,±0.25pF,±0.1pF ±0.5pF,±0.25pF,±0.1pF	0.80	±0.10	±0.10 ±0.10	0.19%	
	C1608NP0709 GTS	C1608NP0709 GT	1V, 1MHz	7.0	pF	±0.5pF,±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.19%	
	C1608NP0809 GTS	C1608NP0809 GT	1V, 1MHz	8.0	рF	±0.5pF,±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.18%	
	C1608NP0829 GTS	C1608NP0829 GT	1V, 1MHz	8.2	рF	±0.5pF,±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.18%	
50V	C1608NP0909 GTS	C1608NP0909 GT	1V, 1MHz	9.0	рF	±0.5pF,±0.25pF,±0.1pF	0.80	±0.10	±0.10	0.17%	Paper, 4Kpcs
001	C1608NP0100 GTS	C1608NP0100 GT	1V, 1MHz	10	рF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.17%	r upor, artpoo
	C1608NP0110 GTS	C1608NP0110 GT	1V, 1MHz	11	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.16%	
	C1608NP0120 GTS	C1608NP0120 GT	1V, 1MHz	12	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.16%	
	C1608NP0150 GTS	C1608NP0150 GT	1V, 1MHz	15	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.14%	
	C1608NP0160□ GTS	C1608NP0160□ GT	1V, 1MHz	16	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.14%	
	C1608NP0180 GTS	C1608NP0180 GT	1V, 1MHz	18	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.13%	
	C1608NP0200 GTS	C1608NP0200□ GT	1V, 1MHz	20	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.13%	
	C1608NP0220 GTS	C1608NP0220 GT	1V, 1MHz	22	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.12%	
	C1608NP0240□ GTS	C1608NP0240 GT	1V, 1MHz	24	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.11%	
	C1608NP0270 GTS	C1608NP0270 GT	1V, 1MHz	27	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.11%	
	C1608NP0300 GTS	C1608NP0300□ GT	1V, 1MHz	30	рF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0330 GTS	C1608NP0330□ GT	1V, 1MHz	33	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0360□ GTS	C1608NP0360□ GT	1V, 1MHz	36	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0390 GTS	C1608NP0390□ GT	1V, 1MHz	39	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0430 GTS	C1608NP0430 GT	1V, 1MHz	43	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0470 GTS	C1608NP0470 GT	1V, 1MHz	47	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0560□ GTS	C1608NP0560□ GT	1V, 1MHz	56	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0620□ GTS	C1608NP0620□ GT	1V, 1MHz	62	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0680□ GTS	C1608NP0680 GT	1V, 1MHz	68	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0750□ GTS	C1608NP0750 GT	1V, 1MHz	75	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0820 GTS	C1608NP0820 GT	1V, 1MHz	82	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0910 GTS	C1608NP0910 GT	1V, 1MHz	91	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0101 GTS	C1608NP0101 GT	1V, 1MHz	100	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0121 GTS	C1608NP0121 GT	1V, 1MHz	120	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0151 GTS	C1608NP0151 GT	1V, 1MHz	150	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0181 GTS	C1608NP0181 GT	1V, 1MHz	180	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0201 GTS	C1608NP0201 GT	1V, 1MHz	200	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0221 GTS	C1608NP0221 GT	1V, 1MHz	220	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	

	- 4		Measuring	Capaci	tance		Thick.	Toleran	ice(mm)	DF	Standard
RV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Available Tolerance	(mm)	L/W	Thick.	(max.)	Packing
	C1608NP0271 GTS	C1608NP0271 GT	1V, 1MHz	270	pF	±5%,±2%	0.80	±0.10	±0.10	0.10%	
	C1608NP0331 GTS	C1608NP0331 GT	1V, 1MHz	330	pF	±5%,±2%	0.80	±0.10	±0.10	0.10%	
	C1608NP0391 GTS	C1608NP0391 GT	1V, 1MHz	390	pF	±5%,±2%	0.80	±0.10	±0.10	0.10%	
	C1608NP0431JGTS	C1608NP0431JGT	1V, 1MHz	430	pF	±5%	0.80	±0.10	±0.10	0.10%	
	C1608NP0471 GTS	C1608NP0471 GT	1V, 1MHz	470	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0561 GTS	C1608NP0561 GT	1V, 1MHz	560	pF	±5%,±2%	0.80	±0.10	±0.10	0.10%	
	C1608NP0681 GTS	C1608NP0681 GT	1V, 1MHz	680	pF	±5%,±2%	0.80	±0.10	±0.10	0.10%	
	C1608NP0821 GTS	C1608NP0821 GT	1V, 1MHz	820	pF	±5%,±2%	0.80	±0.10	±0.10	0.10%	
	C1608NP0102 GTS	C1608NP0102 GT	1V, 1MHz	1.0	nF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP0122JGTS	C1608NP0122JGT	1V, 1kHz	1.2	nF	±5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
50V	C1608NP0152 GTS	C1608NP0152 GT	1V, 1kHz	1.5	nF	±5%,±2%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	Paper, 4Kpcs
	C1608NP0182JGTS	C1608NP0182JGT	1V, 1kHz	1.8	nF	±5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
	C1608NP0222JGTS	C1608NP0222JGT	1V, 1kHz	2.2	nF	±5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
	C1608NP0272JGTS	C1608NP0272JGT	1V, 1kHz	2.7	nF	±5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
	C1608NP0332JGTS	C1608NP0332JGT	1V, 1kHz	3.3	nF	±5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
	C1608NP0392JGTS	C1608NP0392JGT	1V, 1kHz	3.9	nF	±5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
	C1608NP0472JGTS	C1608NP0472JGT	1V, 1kHz	4.7	nF	±5%	0.80		+0.15/-0.10	0.10%	
	C1608NP0562JGTS	C1608NP0562JGT	1V, 1kHz	5.6	nF	±5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
	C1608NP0682JGTS	C1608NP0682JGT	1V, 1kHz	6.8	nF	±5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
	C1608NP0822JGTS	C1608NP0822JGT	1V, 1kHz	8.2	nF	±5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
	C1608NP0103JGTS	C1608NP0103JGT	1V, 1kHz	10	nF	±5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
	C1608NP0279CFTS	C1608NP0279CFT	1V, 1MHz	2.7	pF	±0.25pF	0.80	±0.10	±0.10	0.22%	
	C1608NP0309CFTS	C1608NP0309CFT	1V, 1MHz	3.0	pF	±0.25pF	0.80	±0.10	±0.10	0.22%	
	C1608NP0609DFTS	C1608NP0609DFT	1V, 1MHz	6.0	pF	±0.5pF	0.80	±0.10	±0.10	0.19%	
	C1608NP0220JFTS	C1608NP0220JFT	1V, 1MHz	22	pF	±5%	0.80	±0.10	±0.10	0.12%	
	C1608NP0470JFTS	C1608NP0470JFT	1V, 1MHz	47	pF	±5%	0.80	±0.10	±0.10	0.10%	
	C1608NP0101 FTS	C1608NP0101 FT	1V, 1MHz	100	pF	±10%,±5%	0.80	±0.10	±0.10	0.10%	
25V	C1608NP0121 FTS	C1608NP0121 FT	1V, 1MHz	120	pF	±10%,±5%	0.80	±0.10	±0.10	0.10%	Paper, 4Kpcs
250	C1608NP0471 FTS	C1608NP0471n FT	1V, 1MHz	470	pF	±10%,±5%	0.80	±0.10	±0.10	0.10%	гарст, турсэ
	C1608NP0102JFTS	C1608NP0102JFT	1V, 1MHz	1.0	nF	±5%	0.80	±0.10	±0.10	0.10%	
	C1608NP0152JFTS	C1608NP0152JFT	1V, 1kHz	1.5	nF	±5%	0.80	+0.15/-0.10		0.10%	
	C1608NP0222JFTS	C1608NP0222JFT	1V, 1kHz	2.2	nF	±5%	0.80		+0.15/-0.10	0.10%	
	C1608NP0682JFTS	C1608NP0682JFT	1V, 1kHz	6.8	nF	±5%	0.80	+0.15/-0.10		0.10%	
	C1608NP0822JFTS	C1608NP0822JFT	1V, 1kHz	8.2	nF	±5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
	C1608NP0103JFTS	C1608NP0103JFT	1V, 1kHz	10	nF	±5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
	C1608NP0180 ETS	C1608NP0180□ ET	1V, 1MHz	18	pF	±5%,±2%,±1%	0.80	±0.10	±0.10	0.13%	
	C1608NP0300JETS	C1608NP0300JET	1V, 1MHz	30	pF	±5%	0.80	±0.10	±0.10	0.10%	
	C1608NP0152JETS	C1608NP0152JET	1V, 1kHz	1.5	nF	±5%	0.80		+0.15/-0.10	0.10%	
16V	C1608NP0222JETS	C1608NP0222JET	1V, 1kHz	2.2	nF	±5%	0.80	+0.15/-0.10		0.10%	Paper, 4Kpcs
	C1608NP0272JETS	C1608NP0272JET	1V, 1kHz	2.7	nF	±5%	0.80		+0.15/-0.10	0.10%	
	C1608NP0332JETS	C1608NP0332JET	1V, 1kHz	3.3	nF	±5%	0.80		+0.15/-0.10	0.10%	
	C1608NP0822JETS	C1608NP0822JET	1V, 1kHz	8.2	nF	±5%	0.80	+0.15/-0.10		0.10%	
10V	C1608NP0101 DTS	C1608NP0101 DT	1V, 1MHz	100	pF	±10%,±5%	0.80	±0.10	±0.10	0.10%	Paper, 4Kpcs

 $<sup>\</sup>hfill\Box$  Tolerance Code: F=±1%, G=±2%, J=±5%; Special tolerance on the request.

### • C2012NP0\_S Series (EIA0805)

VANCOUR PIN	D) (	DARFON R/N	DARFON BANG	Measuring	Capaci	tance	A	Thick.	Toleran	ce(mm)	DF	Standard
C2012MP0120: GTS   C2012MP0130: GT   V, IMM+2   12   pF   ±5%,22%   0.00   ±0.15   ±0.15   0.15%	RV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Available Tolerance	(mm)	L/W	Thick.	(max.)	Packing
C2012MP0150: GTS   C2012MP0150: GT   V, IMM+2   15		C2012NP0100 GTS	C2012NP0100 GT	1V, 1MHz	10	pF	±10%,±5%,±2%	0.60	±0.15	±0.15	0.17%	
C2012MP0180: GTS   C2012MP0200: GT   C17, IMM+2   20   GF   ±5%, ±2%   0.00   ±0.15   ±0.15   0.13%		C2012NP0120 GTS	C2012NP0120 GT	1V, 1MHz	12	pF	±5%,±2%	0.60	±0.15	±0.15	0.16%	
C2012MP02000 GTS		C2012NP0150 GTS	C2012NP0150 GT	1V, 1MHz	15	pF	±5%,±2%	0.60	±0.15	±0.15	0.14%	
C2012MP022D0: GTS		C2012NP0180 GTS	C2012NP0180 GT	1V, 1MHz	18	pF	±5%,±2%	0.60	±0.15	±0.15	0.13%	
SOV    C2012MP02700 GTS   C2012MP0200 GT   17, MMHz   27   pF   ±5%, ±2%   0.60   40.15   40.15   0.10%		C2012NP0200□ GTS	C2012NP0200 GT	1V, 1MHz	20	pF	±5%,±2%	0.60	±0.15	±0.15	0.13%	
C2012NP0300-GTS C2012NP0300-GT V, 1MHz 30 0 F		C2012NP0220 GTS	C2012NP0220 GT	1V, 1MHz	22	pF	±5%,±2%	0.60	±0.15	±0.15	0.12%	
C2012NP0330: GTS		C2012NP0270 GTS	C2012NP0270 GT	1V, 1MHz	27	pF	±5%,±2%	0.60	±0.15	±0.15	0.11%	
C2012NP0390-GTS C2012NP0390-GT V, NHz 28 pF ±5%,22% 0.60 ±0.15 ±0.15 0.10%; C2012NP0390-GTS C2012NP0390-GTS V, NHz 47 pF ±5%,22% 0.60 ±0.15 ±0.15 0.10%; C2012NP0390-GTS C2012NP0390-GT V, NHz 47 pF ±5%,22% 0.60 ±0.15 ±0.15 0.10%; C2012NP0390-GTS C2012NP0390-GTS V, NHz 58 pF ±15%,22% 0.60 ±0.15 ±0.15 0.10%; C2012NP0390-GTS C2012NP0300-GT V, NHz 58 pF ±15%,22% 0.60 ±0.15 ±0.15 0.10%; C2012NP0300-GTS C2012NP0300-GT V, NHz 58 pF ±15%,22% 0.60 ±0.15 ±0.15 0.10%; C2012NP0300-GTS C2012NP0300-GT V, NHz 100 pF ±5%,22% 0.60 ±0.15 ±0.15 0.10%; C2012NP0310-GTS C2012NP0310-GT V, NHz 100 pF ±5%,22%,15% 0.60 ±0.15 ±0.15 0.10%; C2012NP0310-GTS C2012NP0310-GT V, NHz 100 pF ±5%,22%,15% 0.60 ±0.15 ±0.15 0.10%; C2012NP0310-GTS C2012NP0310-GT V, NHz 100 pF ±5%,22%,15% 0.60 ±0.15 ±0.15 0.10%; C2012NP0310-GTS C2012NP0310-GT V, NHz 100 pF ±5%,22%,15% 0.60 ±0.15 ±0.15 0.10%; C2012NP0310-GTS C2012NP0310-GT V, NHz 100 pF ±5%,22%,15% 0.60 ±0.15 ±0.15 0.10%; C2012NP0310-GTS C2012NP0310-GT V, NHz 200 pF ±5%,22%,15% 0.60 ±0.15 ±0.15 0.10%; C2012NP031-GTS C2012NP0310-GT V, NHz 200 pF ±5%,22%,15% 0.60 ±0.15 ±0.15 0.10%; C2012NP031-GTS C2012NP0313-GT V, NHz 200 pF ±5%,52%,15% 0.60 ±0.15 ±0.15 0.10%; C2012NP031-GTS C2012NP0313-GT V, NHz 200 pF ±5%,52%,15% 0.60 ±0.15 ±0.15 0.10%; C2012NP031-GTS C2012NP031-GT V, NHz 200 pF ±5%,52%,15% 0.60 ±0.15 ±0.15 0.10%; C2012NP031-GTS C2012NP031-GT V, NHz 200 pF ±5%,52%,54% 0.60 ±0.15 ±0.15 0.10%; C2012NP031-GTS C2012NP031-GT V, NHz 200 pF ±5%,52%,54% 0.60 ±0.15 ±0.15 0.10%; C2012NP031-GTS C2012NP031-GT V, NHz 200 pF ±5%,52%,54% 0.60 ±0.15 ±0.15 0.10%; C2012NP031-GT C201		C2012NP0300□ GTS	C2012NP0300  GT	1V, 1MHz	30	pF	±5%,±2%	0.60	±0.15	±0.15	0.10%	1
C2012NP0390-GTS C2012NP0390-GT 1V, IMHz 33 pF ±5%±2% 0.00 ±0.15 ±0.15 0.10%		C2012NP0330□ GTS	C2012NP0330 GT	1V, 1MHz	33	pF	±5%,±2%	0.60	±0.15	±0.15	0.10%	1
C2012NPO470-GTS C2012NPO470-GT 1V, 1MHz 47 pF ±5% ±2% 0.60 ±0.15 ±0.15 0.10% C2012NPO580-GTS C2012NPO580-GT 1V, 1MHz 55 pF ±10%,±2% 0.60 ±0.15 ±0.15 0.10% C2012NPO580-GTS C2012NPO580-GT 1V, 1MHz 82 pF ±5%,±2% 0.60 ±0.15 ±0.15 0.10% C2012NPO101-GTS C2012NPO102-GT TV, 1MHz 470 pF ±5% 0.06 ±0.15 ±0.15 0.10%		C2012NP0360□ GTS	C2012NP0360□ GT	1V, 1MHz	36	pF	±5%,±2%	0.60	±0.15	±0.15	0.10%	
C2012NP0680-GTS C2012NP0680-GT 1V, 1MHz 88 PF ±19%±29% 0.60 ±0.15 ±0.15 0.10% 1.00%		C2012NP0390 GTS	C2012NP0390□ GT	1V, 1MHz	39	pF	±5%,±2%	0.60	±0.15	±0.15	0.10%	
C2012NP083C GTS C2012NP0880C GT 1V, 1MHz 82 pF 45%, 42% 0, 60 40.15 40.15 0.10% 10.10% 10.2012NP083C GTS C2012NP0101C GT 1V, 1MHz 82 pF 45%, 42%, 41% 0, 60 40.15 40.15 0.10% 10.10% 10.2012NP0101C GTS C2012NP0101C GT 1V, 1MHz 120 pF 45%, 42%, 41% 0, 60 40.15 40.15 0.10% 10.10% 10.2012NP011GTS C2012NP011GT 1V, 1MHz 150 pF 45% 0, 60 40.15 40.15 10.15 0.10% 10.10% 10.2012NP011GTS C2012NP011GT 1V, 1MHz 150 pF 45% 0, 60 40.15 40.15 10.15 0.10% 1		C2012NP0470 GTS	C2012NP0470 GT	1V, 1MHz	47	pF	±5%,±2%	0.60	±0.15	±0.15	0.10%	
C2012NP092D: GTS   C2012NP082D: GT   11, 1MHz   22   pF   45%, 42%, 41%   0.60   40.15   40.15   0.10%		C2012NP0560□ GTS	C2012NP0560□ GT	1V, 1MHz	56	pF	±10%,±5%	0.60	±0.15	±0.15	0.10%	1
C2012NPO1012IJGTS   C2012NPO101JGT   IV. 1MHz   100   pF		C2012NP0680 GTS	C2012NP0680□ GT	1V, 1MHz	68	pF	±5%,±2%	0.60	±0.15	±0.15	0.10%	
C2012MP012LIGTS   C2012MP018LIGT   V1, 1MHz   120   pF   ±5%   0.60   ±0.15   ±0.15   0.10%		C2012NP0820 GTS	C2012NP0820 GT	1V, 1MHz	82	pF	±5%,±2%	0.60	±0.15	±0.15	0.10%	
C2012NP015LIGITS   C2012NP015LIGIT   1V, 1MHz   150   pF   ±5%   0.60   ±0.15   ±0.15   0.10%   C2012NP0201LIGIT   C2012NP0201LIGIT   1V, 1MHz   200   pF   ±5%   0.60   ±0.15   ±0.15   0.10%   C2012NP0201LIGIT   C2012NP0201LIGIT   1V, 1MHz   220   pF   ±5%, ±1%   0.60   ±0.15   ±0.15   0.10%   C2012NP0201LIGIT   C2012NP0201LIGIT   1V, 1MHz   200   pF   ±5%, ±1%   0.60   ±0.15   ±0.15   0.10%   C2012NP0201LIGIT   C2012NP0201LIGIT   1V, 1MHz   200   pF   ±5%, ±1%   0.60   ±0.15   ±0.15   0.10%   C2012NP0201LIGIT   C2012NP031LIGIT   C2012NP031LIGI		C2012NP0101 GTS	C2012NP0101 GT	1V, 1MHz	100	pF	±5%,±2%,±1%	0.60	±0.15	±0.15	0.10%	
C2012MP0181JGTS   C2012MP0201JGT   1V, IMHz   180   pF   ±5%   0.00   ±0.15   ±0.15   ±0.15   ±0.15   C2012MP0201JGT   C2012MP0201JGT   V, IMHz   200   pF   ±5%   0.00   ±0.15   ±0		C2012NP0121JGTS	C2012NP0121JGT	1V, 1MHz	120	pF	±5%	0.60	±0.15	±0.15	0.10%	D 416
C2012NP0201LGTS		C2012NP0151JGTS	C2012NP0151JGT	1V, 1MHz	150	pF	±5%	0.60	±0.15	±0.15	0.10%	Paper, 4Kpcs
C2012NP00271JGTS C2012NP0027JJGT 1V, 1MHz 220 pF ±5%, ±2%, ±1% 0.60 ±0.15 ±0.15 0.10%   C2012NP0037JGTS C2012NP0037JGT 1V, 1MHz 270 pF ±5% 0.60 ±0.15 ±0.15 0.10%   C2012NP0037JGTS C2012NP0037JGT 1V, 1MHz 330 pF ±5% 0.60 ±0.15 ±0.15 0.10%   C2012NP0037JGTS C2012NP0037JGT 1V, 1MHz 390 pF ±5% 0.60 ±0.15 ±0.15 0.10%   C2012NP0047JGTS C2012NP0047JGT 1V, 1MHz 470 pF ±5% 0.60 ±0.15 ±0.15 0.10%   C2012NP047JGTS C2012NP0047JGT 1V, 1MHz 470 pF ±5% 0.60 ±0.15 ±0.15 0.10%   C2012NP047JGTS C2012NP0681JGT 1V, 1MHz 470 pF ±5% 0.60 ±0.15 ±0.15 0.10%   C2012NP047JGTS C2012NP0681JGT 1V, 1MHz 560 pF ±5% 0.60 ±0.15 ±0.15 0.10%   C2012NP0681JGTS C2012NP0681JGT 1V, 1MHz 820 pF ±5% 0.60 ±0.15 ±0.15 0.10%   C2012NP082JGTS C2012NP002JGT 1V, 1MHz 820 pF ±5% 0.60 ±0.15 ±0.15 0.10%   C2012NP062JGTS C2012NP012JGT 1V, 1MHz 820 pF ±5% 0.60 ±0.15 ±0.15 0.10%   C2012NP012JGTS C2012NP012JGT 1V, 1MHz 12 nF ±5% 0.60 ±0.15 ±0.15 0.10%   C2012NP012JGTS C2012NP012JGT 1V, 1MHz 12 nF ±5% 0.60 ±0.15 ±0.15 0.10%   C2012NP012JGTS C2012NP012JGT 1V, 1MHz 1.2 nF ±5% 0.85 ±0.15 ±0.15 0.10%   C2012NP012JGTS C2012NP012JGT 1V, 1MHz 1.2 nF ±5% 0.85 ±0.15 ±0.15 0.10%   C2012NP012JGTS C2012NP012JGT 1V, 1MHz 1.2 nF ±5% 0.85 ±0.15 ±0.15 0.10%   C2012NP012JGTS C2012NP012JGT 1V, 1MHz 1.2 nF ±5% 0.85 ±0.15 ±0.15 0.10%   C2012NP012JGTS C2012NP012JGT 1V, 1MHz 2.2 nF ±5% 0.85 ±0.15 ±0.15 0.10%   C2012NP022JGTS C2012NP012JGT 1V, 1MHz 2.2 nF ±5% 0.85 ±0.15 ±0.15 0.10%   C2012NP022JGTS C2012NP012JGT 1V, 1MHz 2.7 nF ±5% 0.85 ±0.15 ±0.15 0.10%   C2012NP022JGTS C2012NP022JGT 1V, 1MHz 3.3 nF ±5% 0.85 ±0.15 ±0.15 0.10%   C2012NP033JGFS C2012NP032JGF 1V, 1MHz 3.3 nF ±5% 0.85 ±0.15 ±0.15 0.10%   C2012NP033JGFS C2012NP032JGF 1V, 1MHz 3.9 nF ±5% 0.85 ±0.15 ±0.15 0.10%   C2012NP033JGFS C2012NP032JGF 1V, 1MHz 3.9 nF ±5% 0.85 ±0.15 ±0.15 0.10%   C2012NP0472JGFS C2012NP032JGF 1V, 1MHz 4.7 nF ±5% 0.85 ±0.15 ±0.15 0.10%   C2012NP0472JGFS C2012NP0472JGF 1V, 1MHz 4.7 nF ±5% 0.85 ±0.15 ±0.15 0.10%   C2012NP0472JGFS C2012NP0472JGF 1V, 1MHz 4.7 nF ±5% 0.85 ±0.15 ±0.15 0.10%   C2012NP0472JGFS C2		C2012NP0181JGTS	C2012NP0181JGT	1V, 1MHz	180	pF	±5%	0.60	±0.15	±0.15	0.10%	1
C2012NP023TJJGTS   C2012NP023TJGT   1V, 1MHz   270   pF   ±5%   0.60   ±0.15   ±0.15   0.10%		C2012NP0201JGTS	C2012NP0201JGT	1V, 1MHz	200	pF	±5%	0.60	±0.15	±0.15	0.10%	1
C2012NP0331JGTS   C2012NP0391JGT   TV, 1MHz   330   PF   ±5%   0.60   ±0.15   ±0.15   0.10%		C2012NP0221 GTS	C2012NP0221 GT	1V, 1MHz	220	pF	±5%,±2%,±1%	0.60	±0.15	±0.15	0.10%	
C2012NP031JGTS   C2012NP0391JGT   1V, 1MHz   470   pF   ±5%   0.60   ±0.15   ±0.15   0.10%		C2012NP0271JGTS	C2012NP0271JGT	1V, 1MHz	270	pF	±5%	0.60	±0.15	±0.15	0.10%	1
C2012NP0471JGTS   C2012NP0471JGT   1V, 1MHz   470   pF   ±5%   0.60   ±0.15   ±0.15   0.10%		C2012NP0331JGTS	C2012NP0331JGT	1V, 1MHz	330	pF	±5%	0.60	±0.15	±0.15	0.10%	
C2012NP047I/GIS   C2012NP047I/GIS   TV, 1MHz   470   pF   ±5%   0.60   ±0.15   ±0.15   0.10%	-0.	C2012NP0391JGTS	C2012NP0391JGT	1V, 1MHz	390	pF	±5%	0.60	±0.15	±0.15	0.10%	1
C2012NP0561JGTS   C2012NP0561JGT   1V, 1MHz   560   pF   ±5%   0.60   ±0.15   ±0.15   0.10%	50V	C2012NP0471JGTS	C2012NP0471JGT	1V, 1MHz	470	pF	±5%	0.60	±0.15	±0.15	0.10%	1
C2012NP0681JGTS   C2012NP0681JGT   1V, 1MHz   680   pF   ±5%   0.60 ±0.15 ±0.15   0.10%		C2012NP0471JGTSE		1V, 1MHz	470	pF	±5%	0.85	±0.15	±0.15	0.10%	1
C2012NP0821JGTS   C2012NP0821JGT   TV, 1MHz   R20   pF   ±55%   0.60   ±0.15   ±0.15   0.10%		C2012NP0561JGTS	C2012NP0561JGT	1V, 1MHz	560	pF	±5%	0.60	±0.15	±0.15	0.10%	
C2012NP0102JGTS   C2012NP0102JGT   1V, 1kHz   1.0   nF   ±5%   0.60   ±0.15   ±0.15   0.10%		C2012NP0681JGTS	C2012NP0681JGT	1V, 1MHz	680	pF	±5%	0.60	±0.15	±0.15	0.10%	1
C2012NP0122JGTS   C2012NP0152JGT   1V, 1kHz   1.2   nF		C2012NP0821JGTS	C2012NP0821JGT	1V, 1MHz	820	pF	±5%	0.60	±0.15	±0.15	0.10%	1
C2012NP0152JGTS   C2012NP0152JGT   1V, 1kHz   1.5		C2012NP0102JGTS	C2012NP0102JGT	1V, 1MHz	1.0	nF	±5%	0.60	±0.15	±0.15	0.10%	1
C2012NP0182JGTS   C2012NP0182JGT   1V, 1kHz   1.8   nF   ±5%   0.85   ±0.15   ±0.15   0.10%		C2012NP0122JGTS	C2012NP0122JGT	1V, 1kHz	1.2	nF	±5%	0.85	±0.15	±0.15	0.10%	1
C2012NP0222JGTS   C2012NP0222JGT   1V, 1kHz   2.2   nF   ±5%   0.85   ±0.15   ±0.15   ±0.15   0.10%		C2012NP0152JGTS	C2012NP0152JGT	1V, 1kHz	1.5	nF	±5%	0.85	±0.15	±0.15	0.10%	1
C2012NP0272JGTS   C2012NP0272JGT   1V, 1kHz   2.7   nF   ±5%   0.85   ±0.15   ±0.15   0.10%		C2012NP0182JGTS	C2012NP0182JGT	1V, 1kHz	1.8	nF	±5%	0.85	±0.15	±0.15	0.10%	
C2012NP0272JGPS   C2012NP0272JGP   1V, 1kHz   2.7   nF		C2012NP0222JGTS	C2012NP0222JGT	1V, 1kHz	2.2	nF	±5%	0.85	±0.15	±0.15	0.10%	1
C2012NP0332JGTS   C2012NP0332JGT   1V, 1kHz   3.3   nF   ±5%   0.85   ±0.15   ±0.15   ±0.10   Embossed, 3Kpcs		C2012NP0272JGTS	C2012NP0272JGT	1V, 1kHz	2.7	nF	±5%	0.85	±0.15	±0.15	0.10%	1
C2012NP0332JGPS   C2012NP0392JGT   1V, 1kHz   3.3   nF   ±5%   1.25   ±0.15   ±0.20   0.10%   Embossed, 3Kpcs		C2012NP0272JGPS	C2012NP0272JGP	1V, 1kHz	2.7	nF	±5%	1.25	±0.15	±0.20	0.10%	Embossed, 3Kpcs
C2012NP0392JGTS   C2012NP0392JGT   1V, 1kHz   3.9   nF   ±5%   0.85   ±0.15   ±0.15   ±0.15   0.10%   Paper, 4Kpcs		C2012NP0332JGTS	C2012NP0332JGT	1V, 1kHz	3.3	nF	±5%	0.85	±0.15	±0.15	0.10%	Paper, 4Kpcs
C2012NP0392JGPS   C2012NP0392JGP   1V, 1kHz   3.9   nF   ±5%   1.25   ±0.15   ±0.20   0.10%   Embossed, 3Kpcs		C2012NP0332JGPS	C2012NP0332JGP	1V, 1kHz	3.3	nF	±5%	1.25	±0.15	±0.20	0.10%	Embossed, 3Kpcs
C2012NP0472JGTS   C2012NP0472JGT   1V, 1kHz   4.7   nF   ±5%   0.85   ±0.15   ±0.15   0.10%   Paper, 4Kpcs		C2012NP0392JGTS	C2012NP0392JGT	1V, 1kHz	3.9	nF	±5%	0.85	±0.15	±0.15	0.10%	Paper, 4Kpcs
C2012NP0472JGPS C2012NP0472JGP 1V, 1kHz 4.7 nF ±5% 1.25 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0562JGPS C2012NP0562JGP 1V, 1kHz 5.6 nF ±5% 1.25 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0682JGPS C2012NP0682JGP 1V, 1kHz 6.8 nF ±5% 1.25 ±0.15 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0822JGP 1V, 1kHz 8.2 nF ±5% 1.25 ±0.15 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0103JGTS C2012NP0103JGT 1V, 1kHz 10 nF ±5% 0.85 ±0.15 ±0.15 ±0.10 0.10% Embossed, 3Kpcs C2012NP0103JGPS C2012NP0103G P 1V, 1kHz 10 nF ±5%, ±2%, ±1% 1.25 ±0.15 ±0.10 0.10% Paper, 4Kpcs C2012NP0103JGPS C2012NP0103G P 1V, 1kHz 10 nF ±5%, ±2%, ±1% 1.25 ±0.15 ±0.10 0.10% Embossed, 3Kpcs C2012NP0103JGPS C2012NP0103G P 1V, 1kHz 10 nF ±5%, ±2%, ±1% 1.25 ±0.15 ±0.10 0.10% Embossed, 3Kpcs C2012NP0223JGPS C2012NP0223JGP 1V, 1kHz 22 nF ±5%, ±2%, ±1% 1.25 ±0.15 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0223JGPS C2012NP0223JGP 1V, 1kHz 22 nF ±5% 1.25 ±0.15 ±0.15 ±0.10 0.10% Embossed, 3Kpcs C2012NP0223JGPS C2012NP0223JGP 1V, 1kHz 22 nF ±5% 1.25 ±0.15 ±0.15 ±0.10 0.10% Embossed, 3Kpcs C2012NP0223JGPS C2012NP022JFT 1V, 1kHz 2.2 nF ±5% 1.25 ±0.15 ±0.15 ±0.15 0.10% Paper, 4Kpcs C2012NP010JETS C2012NP010JET 1V, 1MHz 10 pF ±5%, ±2% 0.60 ±0.15 ±0.15 0.11% Paper, 4Kpcs C2012NP010JETS C2012NP0270G ET 1V, 1MHz 27 pF ±5%, ±2% 0.60 ±0.15 ±0.15 0.11% Paper, 4Kpcs		C2012NP0392JGPS	C2012NP0392JGP	1V, 1kHz	3.9	nF	±5%	1.25	±0.15	±0.20	0.10%	Embossed, 3Kpcs
C2012NP0562JGPS C2012NP0682JGP 1V, 1kHz 5.6 nF ±5% 1.25 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0682JGPS C2012NP0682JGP 1V, 1kHz 6.8 nF ±5% 1.25 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0822JGPS C2012NP0822JGP 1V, 1kHz 8.2 nF ±5% 1.25 ±0.15 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0103JGTS C2012NP0103JGT 1V, 1kHz 10 nF ±5% 0.85 ±0.15 ±0.15 ±0.10 0.10% Paper, 4Kpcs C2012NP0103_GPS C2012NP0103_GP 1V, 1kHz 10 nF ±5%, ±2%, ±1% 1.25 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0103_GPS C2012NP0103_GP 1V, 1kHz 10 nF ±5%, ±2%, ±1% 1.25 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP023JGPS C2012NP0103_GP 1V, 1kHz 10 nF ±5%, ±2%, ±1% 1.25 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP023JGPS C2012NP0223JGP 1V, 1kHz 22 nF ±5% 1.25 ±0.15 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0223JGPS C2012NP0223JGP 1V, 1kHz 22 nF ±5% 1.25 ±0.15 ±0.15 ±0.15 0.10% Paper, 4Kpcs C2012NP010JETS C2012NP010JET 1V, 1MHz 10 pF ±5% 0.60 ±0.15 ±0.15 0.17% Paper, 4Kpcs C2012NP0270_ETS C2012NP0270_ETT 1V, 1MHz 27 pF ±5%, ±2% 0.60 ±0.15 ±0.15 0.11% Paper, 4Kpcs		C2012NP0472JGTS	C2012NP0472JGT	1V, 1kHz	4.7	nF	±5%	0.85	±0.15	±0.15	0.10%	Paper, 4Kpcs
C2012NP0682JGPS C2012NP0682JGP 1V, 1kHz 6.8 nF ±5% 1.25 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0822JGPS C2012NP0822JGP 1V, 1kHz 8.2 nF ±5% 1.25 ±0.15 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0103JGTS C2012NP0103JGT 1V, 1kHz 10 nF ±5% 0.85 ±0.15 ±0.10 0.10% Paper, 4Kpcs C2012NP0103_GPS C2012NP0103_GP 1V, 1kHz 10 nF ±5%, ±2%, ±1% 1.25 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0223JGPS C2012NP0103_GP 1V, 1kHz 10 nF ±5%, ±2%, ±1% 1.25 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0223JGPS C2012NP0223JGP 1V, 1kHz 22 nF ±5% 1.25 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0223JGPS C2012NP0223JGP 1V, 1kHz 22 nF ±5% 1.25 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0223JGPS C2012NP0223JGP 1V, 1kHz 22 nF ±5% 1.25 ±0.15 ±0.15 0.10% Paper, 4Kpcs C2012NP020JETS C2012NP020JET 1V, 1MHz 10 pF ±5% 0.60 ±0.15 ±0.15 0.17% Paper, 4Kpcs C2012NP0270_ETS C2012NP0270_ET 1V, 1MHz 27 pF ±5%, ±2% 0.60 ±0.15 ±0.15 0.11% Paper, 4Kpcs		C2012NP0472JGPS	C2012NP0472JGP	1V, 1kHz	4.7	nF	±5%	1.25	±0.15	±0.20	0.10%	Embossed, 3Kpcs
C2012NP0822JGPS C2012NP0822JGP 1V, 1kHz 8.2 nF ±5% 1.25 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0103JGTS C2012NP0103JGT 1V, 1kHz 10 nF ±5% 0.85 ±0.15 ±0.10 0.10% Paper, 4Kpcs C2012NP0103G GPS C2012NP0103G GP 1V, 1kHz 10 nF ±5%, ±2%, ±1% 1.25 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0223JGPS C2012NP0223JGP 1V, 1kHz 22 nF ±5% 1.25 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0223JGPS C2012NP0223JGP 1V, 1kHz 22 nF ±5% 1.25 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0223JGPS C2012NP0223JGP 1V, 1kHz 22 nF ±5% 1.25 ±0.15 ±0.15 ±0.20 0.10% Embossed, 3Kpcs C2012NP0223JGPS C2012NP0223JGP 1V, 1kHz 22 nF ±5% 0.85 ±0.15 ±0.15 0.10% Paper, 4Kpcs C2012NP010JETS C2012NP010JET 1V, 1MHz 10 pF ±5% 0.60 ±0.15 ±0.15 0.17% Paper, 4Kpcs C2012NP0270G ETS C2012NP0270G ET 1V, 1MHz 27 pF ±5%, ±2% 0.60 ±0.15 ±0.15 0.11% Paper, 4Kpcs		C2012NP0562JGPS	C2012NP0562JGP	1V, 1kHz	5.6	nF	±5%	1.25	±0.15	±0.20	0.10%	Embossed, 3Kpcs
C2012NP0103JGTS C2012NP0103JGT 1V, 1kHz 10 nF ±5% 0.85 ±0.15 ±0.10 0.10% Paper, 4Kpcs C2012NP0103 GPS C2012NP0103 GP 1V, 1kHz 10 nF ±5%, ±2%, ±1% 1.25 ±0.15 ±0.20 0.10% Emobssed, 3Kpcs C2012NP0223JGPS C2012NP0223JGP 1V, 1kHz 22 nF ±5% 1.25 ±0.15 ±0.20 0.10% Emobssed, 3Kpcs C2012NP0222JFTS C2012NP0222JFT 1V, 1kHz 2.2 nF ±5% 0.85 ±0.15 ±0.15 0.10% Paper, 4Kpcs C2012NP010JETS C2012NP010JET 1V, 1MHz 10 pF ±5% 0.60 ±0.15 ±0.15 0.17% Paper, 4Kpcs C2012NP0270 ETS C2012NP0270 ET 1V, 1MHz 27 pF ±5%, ±2% 0.60 ±0.15 ±0.15 0.11% Paper, 4Kpcs		C2012NP0682JGPS	C2012NP0682JGP	1V, 1kHz	6.8	nF	±5%	1.25	±0.15	±0.20	0.10%	Embossed, 3Kpcs
C2012NP0103 GPS C2012NP0103 GP 1V, 1kHz 10 nF ±5%,±2%,±1% 1.25 ±0.15 ±0.20 0.10% Emobssed,3Kpcs C2012NP0223JGPS C2012NP0223JGP 1V, 1kHz 22 nF ±5% 1.25 ±0.15 ±0.20 0.10% Emobssed,3Kpcs C2012NP0222JFTS C2012NP0222JFT 1V, 1kHz 2.2 nF ±5% 0.85 ±0.15 ±0.15 0.10% Paper, 4Kpcs C2012NP010JETS C2012NP010JET 1V, 1MHz 10 pF ±5% 0.60 ±0.15 ±0.15 0.17% Paper, 4Kpcs C2012NP0270 ETS C2012NP0270 ET 1V, 1MHz 27 pF ±5%,±2% 0.60 ±0.15 ±0.15 0.11% Paper, 4Kpcs		C2012NP0822JGPS	C2012NP0822JGP	1V, 1kHz	8.2	nF	±5%	1.25	±0.15	±0.20	0.10%	Embossed, 3Kpcs
C2012NP0223JGPS C2012NP0223JGP 1V, 1kHz 22 nF ±5% 1.25 ±0.15 ±0.20 0.10% Emobssed,3Kpcs 25V C2012NP0222JFTS C2012NP0222JFT 1V, 1kHz 2.2 nF ±5% 0.85 ±0.15 ±0.15 0.10% Paper, 4Kpcs  C2012NP0100JETS C2012NP0100JET 1V, 1MHz 10 pF ±5% 0.60 ±0.15 ±0.15 0.17% 0.10% Paper, 4Kpcs  C2012NP0270□ ETS C2012NP0270□ ET 1V, 1MHz 27 pF ±5%,±2% 0.60 ±0.15 ±0.15 0.11% Paper, 4Kpcs		C2012NP0103JGTS	C2012NP0103JGT	1V, 1kHz	10	nF	±5%	0.85	±0.15	±0.10	0.10%	Paper, 4Kpcs
C2012NP0223JGPS   C2012NP0223JGP   1V, 1kHz   22		C2012NP0103 GPS	C2012NP0103 GP	1V, 1kHz	10	nF	±5%,±2%,±1%	1.25	±0.15	±0.20	0.10%	Emphaged 21/202
C2012NP0100JETS C2012NP0100JET 1V, 1MHz 10 pF ±5% 0.60 ±0.15 ±0.15 0.17% C2012NP0270□ ETS C2012NP0270□ ET 1V, 1MHz 27 pF ±5%,±2% 0.60 ±0.15 ±0.15 0.11% Paper, 4Kpcs		C2012NP0223JGPS	C2012NP0223JGP	1V, 1kHz	22	nF	±5%	1.25	±0.15	±0.20	0.10%	Emoussea,skpcs
16V C2012NP0270□ ETS C2012NP0270□ ET 1V, 1MHz 27 pF ±5%,±2% 0.60 ±0.15 ±0.15 0.11% Paper, 4Kpcs	25V	C2012NP0222JFTS	C2012NP0222JFT	1V, 1kHz	2.2	nF	±5%	0.85	±0.15	±0.15	0.10%	Paper, 4Kpcs
16V C2012NP0270= ETS C2012NP0270= ET 1V, 1MHz 27 pF ±5%,±2% 0.60 ±0.15 ±0.15 0.11%		C2012NP0100JETS	C2012NP0100JET	1V, 1MHz	10	pF	±5%	0.60	±0.15	±0.15	0.17%	Papar 41/200
C2012NP0332JEPS C2012NP0332JEP 1V, 1kHz 3.3 nF ±5% 1.25 ±0.15 ±0.20 0.10% Embossed. 3Kpcs	16V	C2012NP0270□ ETS	C2012NP0270 ET	1V, 1MHz	27	pF	±5%,±2%	0.60	±0.15	±0.15	0.11%	raper, 4kpcs
		C2012NP0332JEPS	C2012NP0332JEP	1V, 1kHz	3.3	nF	±5%	1.25	±0.15	±0.20	0.10%	Embossed, 3Kpcs

### • C3216NP0\_S Series (EIA1206)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capaci	tance	Available Tolerance	Thick.	Toleran	ce(mm)	DF	Standard
ΚV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Available Tolerance	(mm)	L/W	Thick.	(max.)	Packing
	C3216NP0100JGTS	C3216NP0100JGT	1V, 1MHz	10	pF	±5%	0.80	±0.15	±0.10	0.17%	
	C3216NP0220JGTS	C3216NP0220JGT	1V, 1MHz	22	pF	±5%	0.80	±0.15	±0.10	0.12%	Paper,4Kpcs
	C3216NP0101JGTS	C3216NP0101JGT	1V, 1MHz	100	pF	±5%	0.80	±0.15	±0.10	0.10%	r aper,4rcpcs
	C3216NP0221JGTS	C3216NP0221JGT	1V, 1MHz	220	pF	±5%	0.80	±0.15	±0.10	0.10%	
	C3216NP0822JGPS	C3216NP0822JGP	1V, 1kHz	8.2	nF	±5%	1.25	±0.15	±0.20	0.10%	Embossed, 3Kpcs
	C3216NP0103JGPS	C3216NP0103JGP	1V, 1kHz	10	nF	±5%	1.25	±0.15	±0.20	0.10%	Lilibosseu, Jikpos
50V	C3216NP0123JGPS	C3216NP0123JGP	1V, 1kHz	12	nF	±5%	1.60	±0.30	±0.30	0.10%	
30 V	C3216NP0153JGPS	C3216NP0153JGP	1V, 1kHz	15	nF	±5%	1.60	±0.30	±0.30	0.10%	
	C3216NP0183JGPS	C3216NP0183JGP	1V, 1kHz	18	nF	±5%	1.60	±0.30	±0.30	0.10%	
	C3216NP0223JGPS	C3216NP0223JGP	1V, 1kHz	22	nF	±5%	1.60	±0.30	±0.30	0.10%	Embossed, 2Kpcs
	C3216NP0273JGPS	C3216NP0273JGP	1V, 1kHz	27	nF	±5%	1.60	±0.30	±0.30	0.10%	
	C3216NP0333JGPS	C3216NP0333JGP	1V, 1kHz	33	nF	±5%	1.60	±0.30	±0.30	0.10%	
	C3216NP0393JGPS	C3216NP0393JGP	1V, 1kHz	39	nF	±5%	1.60	±0.30	±0.30	0.10%	
	C3216NP0104JGPS	C3216NP0104JGP	1V, 1kHz	100	nF	±5%	1.60	±0.30	±0.30	0.10%	Embossed, 2Kpcs
25V	C3216NP0104JFPS	C3216NP0104JFP	1V, 1kHz	100	nF	±5%	1.60	±0.30	±0.30	0.10%	Embossed, 2Kpcs
	C3216NP0123JEPS	C3216NP0123JEP	1V, 1kHz	12	nF	±5%	1.60	±0.30	±0.30	0.10%	
	C3216NP0153JEPS	C3216NP0153JEP	1V, 1kHz	15	nF	±5%	1.60	±0.30	±0.30	0.10%	
	C3216NP0183JEPS	C3216NP0183JEP	1V, 1kHz	18	nF	±5%	1.60	±0.30	±0.30	0.10%	
16V	C3216NP0223JEPS	C3216NP0223JEP	1V, 1kHz	22	nF	±5%	1.60	±0.30	±0.30	0.10%	Embossed, 2Kpcs
	C3216NP0273JEPS	C3216NP0273JEP	1V, 1kHz	27	nF	±5%	1.60	±0.30	±0.30	0.10%	
	C3216NP0333JEPS	C3216NP0333JEP	1V, 1kHz	33	nF	±5%	1.60	±0.30	±0.30	0.10%	
	C3216NP0393JEPS	C3216NP0393JEP	1V, 1kHz	39	nF	±5%	1.60	±0.30	±0.30	0.10%	

### **Class II: High Dielectric Constant Type**

#### **Feature**

- 1. High volumetric efficiency
- 2. High insulation resistance
- RoHS compliant 3.
- 4. Halogen Free

# **Application** Blocking

- 1.
- Coupling 2.
- Timing 3.
- Bypassing 4.
- Frequency discriminating 5.
- 6. Flittering

#### **Part Number & Characteristic**

- X5R Series
- C0603X5R Series(EIA0201)

<b>RV</b> 50V	DARFON P/N	DARFON P/N 2	Condition			T						
50\/			Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
50\/	C0603X5R331KGTS	C0603X5R331KGT	1V , 1kHz	330	pF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
	C0603X5R102□ GTS	C0603X5R102□ GT	1V , 1kHz	1.0	nF	±10%, ±20%	0.30	± 0.03	± 0.03	5.0%	Danes 451/acc	(l)
500	C0603X5R103KGTS	C0603X5R103KGT	1V , 1kHz	10	nF	±10%	0.30	± 0.03	± 0.03	5.0%	Paper, 15Kpcs	(II)*
	C0603X5R104KGTS	C0603X5R104KGT	1V , 1kHz	100	nF	±10%	0.30	± 0.03	± 0.03	10.0%		(II)*
35V	C0603X5R104KNTS	C0603X5R104KNT	1V , 1kHz	100	nF	±10%	0.30	± 0.03	± 0.03	10.0%	Paper, 15Kpcs	(II)
	C0603X5R101KFTS	C0603X5R101KFT	1V , 1kHz	100	pF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
1 [	C0603X5R151KFTS	C0603X5R151KFT	1V , 1kHz	150	pF	±10%	0.30	± 0.03	± 0.03	5.0%		(I)
1 [	C0603X5R221KFTS	C0603X5R221KFT	1V , 1kHz	220	pF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
1 [	C0603X5R102□ FTS	C0603X5R102□ FT	1V , 1kHz	1.0	nF	±10%, ±20%	0.30	± 0.03	± 0.03	5.0%		(l)
1 [	C0603X5R222KFTS	C0603X5R222KFT	1V , 1kHz	2.2	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
] [	C0603X5R472KFTS	C0603X5R472KFT	1V , 1kHz	4.7	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
] [	C0603X5R682KFTS	C0603X5R682KFT	1V , 1kHz	6.8	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
] [	C0603X5R103□ FTS	C0603X5R103□ FT	1V , 1kHz	10	nF	±10%, ±20%	0.30	± 0.03	± 0.03	5.0%		(II)*
l [	C0603X5R153□ FTS	C0603X5R153□ FT	1V,1kHz	15	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
l L	C0603X5R183□ FTS	C0603X5R183□ FT	1V,1kHz	18	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
25V	C0603X5R223□ FTS	C0603X5R223□ FT	1V , 1kHz	22	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%	Paper, 15Kpcs	(II)
	C0603X5R273□ FTS	C0603X5R273□ FT	1V,1kHz	27	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%	r aper, rerepee	(II)
l [	C0603X5R333□ FTS	C0603X5R333□ FT	1V , 1kHz	33	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
l [	C0603X5R393□ FTS	C0603X5R393□ FT	1V , 1kHz	39	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
l L	C0603X5R473□ FTS	C0603X5R473□ FT	1V,1kHz	47	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
	C0603X5R563□ FTS	C0603X5R563□ FT	1V , 1kHz	56	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
l [	C0603X5R683□ FTS	C0603X5R683□ FT	1V , 1kHz	68	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
] [	C0603X5R823□ FTS	C0603X5R823□ FT	1V , 1kHz	82	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
l L	C0603X5R104□ FTS	C0603X5R104□ FT	1V,1kHz	100	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
l [	C0603X5R224□ FTS	C0603X5R224□ FT	1V,1kHz	220	nF	±10%, ±20%	0.30	± 0.05	± 0.05	10.0%		(II)*
l L	C0603X5R334□ FTS	C0603X5R334□ FT	1V,1kHz	330	nF	±10%, ±20%	0.30	± 0.09	± 0.09	10.0%		(II)*
	C0603X5R474□ FTS	C0603X5R474□ FT	1V , 1kHz	470	nF	±10%, ±20%	0.30	± 0.09	± 0.09	10.0%		(II)*
l [	C0603X5R102□ ETS	C0603X5R102□ ET	1V,1kHz	1.0	nF	±10%, ±20%	0.30	± 0.03	± 0.03	5.0%		(l)
l L	C0603X5R222KETS	C0603X5R222KET	1V,1kHz	2.2	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
	C0603X5R332KETS	C0603X5R332KET	1V , 1kHz	3.3	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(II)
l L	C0603X5R472KETS	C0603X5R472KET	1V,1kHz	4.7	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(II)
l [	C0603X5R103□ ETS	C0603X5R103□ ET	1V , 1kHz	10	nF	±10%, ±20%	0.30	± 0.03	± 0.03	5.0%		(II)
l [	C0603X5R153□ ETS	C0603X5R153□ ET	1V , 1kHz	15	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
l [	C0603X5R223□ ETS	C0603X5R223□ ET	1V , 1kHz	22	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
16V	C0603X5R273□ ETS	C0603X5R273□ ET	1V , 1kHz	27	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
	C0603X5R333 ETS	C0603X5R333□ ET	1V , 1kHz	33	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%	Paper, 15Kpcs	(II)
l [	C0603X5R473 ETS	C0603X5R473□ ET	1V , 1kHz	47	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
1 <u> </u>	C0603X5R683□ ETS	C0603X5R683□ ET	1V , 1kHz	68	nF	±10%, ±20%	0.30	± 0.05	± 0.05	10.0%		(II)
l	C0603X5R104□ ETS	C0603X5R104□ ET	1V , 1kHz	100	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
	C0603X5R224□ ETS	C0603X5R224□ ET	1V , 1kHz	220	nF	±10%, ±20%	0.30	± 0.05	± 0.05	10.0%		(II)*
	C0603X5R334 ETS	C0603X5R334□ ET	1V , 1kHz	330	nF	±10%, ±20%	0.30	±0.09	±0.09	10.0%		(II)*
	C0603X5R474 ETS	C0603X5R474□ ET	1V , 1kHz	470	nF	±10% , ±20%	0.30	±0.09	±0.09	10.0%		(II)*
	C0603X5R105METS	C0603X5R105MET	0.5V , 1kHz	1.0	uF	±20%	0.30	±0.09	±0.09	12.5%		(II)*
	C0603X5R222 DTS	C0603X5R222 DT	1V , 1kHz	2.2	nF	±10% , ±20%	0.30	± 0.03	± 0.03	7.5%		(l)
	C0603X5R332□ DTS	C0603X5R332 DT	1V , 1kHz	3.3	nF	±10% , ±20%	0.30	± 0.03	± 0.03	7.5%		(l)
	C0603X5R472 DTS	C0603X5R472 DT	1V , 1kHz	4.7	nF	±10% , ±20%	0.30	± 0.03	± 0.03	7.5%		(l)
	C0603X5R562 DTS	C0603X5R562 DT	1V , 1kHz	5.6	nF	±10% , ±20%	0.30	± 0.03	± 0.03	7.5%		(l)
	C0603X5R682 DTS	C0603X5R682 DT	1V , 1kHz	6.8	nF	±10% , ±20%	0.30	± 0.03	± 0.03	7.5%		(l)
-	C0603X5R822 DTS	C0603X5R822 DT	1V , 1kHz	8.2	nF	±10% , ±20%	0.30	± 0.03	± 0.03	7.5%		(l)
	C0603X5R103 DTS	C0603X5R103 DT	1V , 1kHz	10	nF	±10% , ±20%	0.30	± 0.03	± 0.03	7.5%		(I)
-	C0603X5R153 DTS	C0603X5R153 DT	1V , 1kHz	15	nF	±10% , ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
10V	C0603X5R223 DTS	C0603X5R223 DT	1V , 1kHz	22	nF	±10% , ±20%	0.30	± 0.03	± 0.03	10.0%	Paper, 15Kpcs	(II)
-	C0603X5R333 DTS	C0603X5R333 DT	1V , 1kHz	33	nF	±10% , ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
-	C0603X5R473 DTS	C0603X5R473 DT	1V , 1kHz	47	nF	±10% , ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
-	C0603X5R563 DTS	C0603X5R563 DT	1V , 1kHz	56	nF	±10% , ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
-	C0603X5R683□ DTS	C0603X5R683 DT	1V , 1kHz	68	nF	±10% , ±20%	0.30	± 0.05	± 0.05	10.0%		(II)
-	C0603X5R823□ DTS	C0603X5R823 DT	1V , 1kHz	82	nF	±10% , ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
-	C0603X5R104 DTS	C0603X5R104 DT	0.5V , 1kHz	100	nF	±10% , ±20%	0.30	± 0.03	± 0.03	10.0%		(II)*
-	C0603X5R224□ DTS	C0603X5R224□ DT	1V , 1kHz	220	nF	±10% , ±20%	0.30	± 0.05	± 0.05	10.0%		(II)*
	C0603X5R334 DTS	C0603X5R334□ DT	1V , 1kHz	330	nF	±10% , ±20%	0.30	±0.09	±0.09	12.5%		(II)*
	C0603X5R474□ DTS	C0603X5R474□ DT	1V , 1kHz	470	nF	±10%, ±20%	0.30	±0.09	±0.09	12.5%		(II)*

RV	DARFON B/N	DARFON P/N 2	Measuring	Capaci	tance	Available	Thick.	Tolerand	ce(mm)	DF	Standard	Test
RV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
10V	C0603X5R105□ DTS	C0603X5R105□ DT	0.5V , 1kHz	1.0	uF	±10%, ±20%	0.30	±0.09	±0.09	12.5%	D 45K	(II)*
100	C0603X5R225MDTS	C0603X5R225MDT	1V , 1kHz	2.2	uF	±20%	0.30	±0.09	±0.09	15.0%	Paper, 15Kpcs	(II)*
	C0603X5R222□ CTS	C0603X5R222□ CT	1V , 1kHz	2.2	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(l)
	C0603X5R332□ CTS	C0603X5R332□ CT	1V , 1kHz	3.3	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(l)
	C0603X5R472□ CTS	C0603X5R472□ CT	1V , 1kHz	4.7	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(l)
	C0603X5R562□ CTS	C0603X5R562□ CT	1V , 1kHz	5.6	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(l)
	C0603X5R682□ CTS	C0603X5R682□ CT	1V , 1kHz	6.8	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(l)
	C0603X5R822□ CTS	C0603X5R822□ CT	1V , 1kHz	8.2	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(l)
	C0603X5R103□ CTS	C0603X5R103□ CT	1V , 1kHz	10	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(l)
	C0603X5R153□ CTS	C0603X5R153□ CT	1V , 1kHz	15	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
	C0603X5R223□ CTS	C0603X5R223□ CT	1V , 1kHz	22	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
	C0603X5R333□ CTS	C0603X5R333□ CT	1V , 1kHz	33	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%	Danar 15Knaa	(II)
6.3V	C0603X5R473□ CTS	C0603X5R473□ CT	1V , 1kHz	47	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%	Paper, 15Kpcs	(II)
6.30	C0603X5R563□ CTS	C0603X5R563□ CT	1V , 1kHz	56	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
	C0603X5R683□ CTS	C0603X5R683□ CT	1V , 1kHz	68	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
	C0603X5R823□ CTS	C0603X5R823□ CT	1V , 1kHz	82	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
	C0603X5R104□ CTS	C0603X5R104□ CT	0.5V , 1kHz	100	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
	C0603X5R224□ CTS	C0603X5R224□ CT	1V , 1kHz	220	nF	±10%, ±20%	0.30	± 0.05	± 0.05	10.0%		(II)*
	C0603X5R334□ CTS	C0603X5R334□ CT	1V , 1kHz	330	nF	±10%, ±20%	0.30	± 0.05	± 0.05	10.0%		(II)*
	C0603X5R474□ CTS	C0603X5R474□ CT	1V , 1kHz	470	nF	±10%, ±20%	0.30	±0.09	±0.09	12.5%		(II)*
	C0603X5R105□ CTS	C0603X5R105□ CT	1V , 1kHz	1.0	uF	±10%, ±20%	0.30	±0.05	±0.05	12.5%		(II)*
	C0603X5R225MCTS	C0603X5R225MCT	0.5V , 1kHz	2.2	uF	±20%	0.30	±0.09	±0.09	20.0%		(II)*
	C0603X5R475MCTSB		0.5V , 1kHz	4.7	uF	±20%	0.50	±0.09	±0.05	20.0%	Paper, 10Kpcs	(II)*
	C0603X5R473□ BTS	C0603X5R473□ BT	1V, 1kHz	47	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
-	C0603X5R474□ BTS	C0603X5R474□ BT	1V , 1kHz	470	nF	±10%, ±20%	0.30	±0.09	±0.09	12.5%	Danar 15Knaa	(II)*
4V	C0603X5R105□ BTS	C0603X5R105□ BT	0.5V , 1kHz	1.0	uF	±10%, ±20%	0.30	±0.05	±0.05	10.0%	Paper, 15Kpcs	(II)*
	C0603X5R225MBTS	C0603X5R225MBT	0.5V , 1kHz	2.2	uF	±20%	0.30	±0.09	±0.09	20.0%		(II)*
	C0603X5R475MBTSB		0.5V , 1kHz	4.7	uF	±20%	0.50	±0.09	±0.05	20.0%	Paper, 10Kpcs	(II)*
2.5V	C0603X5R475MTTSB		0.5V , 1kHz	4.7	uF	±20%	0.50	±0.09	±0.05	20.0%	Paper, 10Kpcs	(II)*

 $<sup>\ \</sup>square$  Tolerance Code: K=±10%, M=±20% ;Special tolerance on the request.

<sup>(</sup>II)\* High temperature load life test are applicable in rated voltage \*100%. (II)/(II)\* are applied with derating voltage.

### • C1005X5R Series (EIA0402)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capaci	_	Available	Thick.	Tolerand		DF	Standard	Test
			Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
	C1005X5R102KGTS	C1005X5R102KGT	1V , 1kHz	1.0	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X5R682KGTS	C1005X5R682KGT	1V , 1kHz	6.8	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X5R103KGTS C1005X5R183KGTS	C1005X5R103KGT	1V , 1kHz 1V , 1kHz	10 18	nF nF	±10% ±10%	0.50 0.50	±0.05	±0.05 ±0.05	5.0% 5.0%		(l)
	C1005X5R163KGTS	C1005X5R183KGT C1005X5R223KGT	1V , 1kHz	22	nF	±10%	0.50	±0.05	±0.05	5.0%		(l) (l)
	C1005X5R333KGTS	C1005X5R333KGT	1V , 1kHz	33	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
50V	C1005X5R473KGTS	C1005X5R473KGT	1V , 1kHz	47	nF	±10%	0.50	±0.05	±0.05	5.0%	Paper, 10Kpcs	(I)
	C1005X5R104 GTS	C1005X5R104□ GT	1V , 1kHz	100	nF	±5% ,±10% ,±20%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X5R224KGTS	C1005X5R224KGT	1V , 1kHz	220	nF	±10%	0.50	±0.10	±0.10	10.0%		(II)
	C1005X5R334□ GTS	C1005X5R334□ GT	1V , 1kHz	330	nF	±10%, ±20%	0.50	±0.10	±0.10	10.0%		(II)*
	C1005X5R474 GTS	C1005X5R474 GT	1V , 1kHz	470	nF	±10%, ±20%	0.50	±0.10	±0.10	10.0%		(II)*
	C1005X5R105 GTS	C1005X5R105 GT	1V , 1kHz	1.0	uF	±10%, ±20%	0.50	±0.20	±0.20	10.0%		(II)*
35V	C1005X5R105□ NTS	C1005X5R105□ NT	1V , 1kHz	1.0	uF	±10%, ±20%	0.50	±0.10	±0.10	10.0%	Paper, 10Kpcs	(II)*
337	C1005X5R225□ NTS	C1005X5R225□ NT	1V , 1kHz	2.2	uF	±10%, ±20%	0.50	±0.20	±0.20	10.0%	rapel, lunpus	(II)*
	C1005X5R103KFTS	C1005X5R103KFT	1V , 1kHz	10	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X5R223 FTS	C1005X5R223 FT	1V , 1kHz	22	nF	±10%, ±20%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X5R333KFTS	C1005X5R333KFT	1V , 1kHz	33	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X5R473KFTS	C1005X5R473KFT	1V , 1kHz	47	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X5R683KFTS	C1005X5R683KFT	1V , 1kHz	68	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X5R104□ FTS C1005X5R224□ FTS	C1005X5R104□ FT	1V , 1kHz 1V , 1kHz	100 220	nF nF	±10% , ±20%	0.50 0.50	±0.05	±0.05 ±0.05	5.0% 10.0%		(I)
25V	C1005X5R224 F1S C1005X5R334 FTS	C1005X5R224□ FT C1005X5R334□ FT	1V , 1kHz	330	nF	±10% , ±20% ±10% , ±20%	0.50	±0.05	±0.05	12.5%	Paper, 10Kpcs	(II) (II)
250	C1005X5R394 FTS	C1005X5R394□ FT	1V , 1kHz	390	nF	±10%, ±20%	0.50	±0.05	±0.05	12.5%	i apei, iorepes	(II)
	C1005X5R474 FTS	C1005X5R474 FT	1V , 1kHz	470	nF	±10% , ±20%	0.50	±0.00	±0.00	12.5%		(II)
	C1005X5R564 FTS	C1005X5R564 FT	1V , 1kHz	560	nF	±10%, ±20%	0.50	±0.10	±0.10	12.5%		(II)*
	C1005X5R684  FTS	C1005X5R684 FT	1V , 1kHz	680	nF	±10%, ±20%	0.50	±0.10	±0.10	12.5%		(II)*
	C1005X5R105 FTS	C1005X5R105□ FT	1V , 1kHz	1.0	uF	±10%, ±20%	0.50	±0.10	±0.10	12.5%		(II)*
	C1005X5R225□ FTS	C1005X5R225 FT	1V , 1kHz	2.2	uF	±10%, ±20%	0.50	±0.20	±0.20	12.5%		(II)*
	C1005X5R475MFTS	C1005X5R475MFT	1V , 1kHz	4.7	uF	±20%	0.50	±0.20	±0.20	12.5%		(II)*
	C1005X5R102KETS	C1005X5R102KET	1V , 1kHz	1.0	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X5R153 ETS	C1005X5R153□ ET	1V , 1kHz	15	nF	±10%, ±20%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X5R223□ ETS	C1005X5R223□ ET	1V , 1kHz	22	nF	±10%, ±20%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X5R273□ ETS	C1005X5R273□ ET	1V , 1kHz	27	nF	±10%, ±20%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X5R333□ ETS	C1005X5R333□ ET	1V,1kHz	33	nF	±10%, ±20%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X5R393KETS	C1005X5R393KET	1V , 1kHz	39	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X5R473 ETS	C1005X5R473□ ET	1V , 1kHz	47	nF	±10%, ±20%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X5R563 ETS	C1005X5R563□ ET	1V , 1kHz	56	nF	±10%, ±20%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X5R683 ETS	C1005X5R683 ET	1V , 1kHz	68	nF	±10% , ±20%	0.50	±0.05	±0.05	5.0%		(l)
16)/	C1005X5R823 ETS	C1005X5R823 ET	1V , 1kHz 1V , 1kHz	82 100	nF nF	±10%, ±20% ±10%, ±20%	0.50 0.50	±0.05 ±0.05	±0.05 ±0.05	5.0%		(l)
16V	C1005X5R104 ETS C1005X5R124 ETS	C1005X5R104□ ET	1V , 1kHz	120	nF nF	±10%, ±20% ±10%, ±20%	0.50	±0.05	±0.05	5.0% 7.5%	Paper, 10Kpcs	(I) (II)
	C1005X5R124 E1S	C1005X5R124 ET C1005X5R154 ET	1V , 1kHz	150	nF	±10%, ±20% ±10%, ±20%	0.50	±0.05	±0.05	7.5%		(II)
	C1005X5R184 ETS	C1005X5R184 ET	1V , 1kHz	180	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%		(II)
	C1005X5R224 ETS	C1005X5R224 ET	1V , 1kHz	220	nF	±10% , ±20%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X5R334 ETS	C1005X5R334 ET	1V , 1kHz	330	nF	±10%, ±20%	0.50	±0.05	±0.05	12.5%		(II)
	C1005X5R474 ETS	C1005X5R474 ET	1V , 1kHz	470	nF	±10%, ±20%	0.50	±0.10	±0.10	12.5%		(II)
	C1005X5R564□ ETS	C1005X5R564□ ET	1V , 1kHz	560	nF	±10%, ±20%	0.50	±0.05	±0.05	12.5%		(II)
	C1005X5R684□ ETS	C1005X5R684□ ET	1V , 1kHz	680	nF	±10%, ±20%	0.50	±0.05	±0.05	12.5%		(II)
	C1005X5R105 ETS	C1005X5R105□ ET	1V , 1kHz	1.0	uF	±10%, ±20%	0.50	±0.05	±0.05	12.5%		(II)
	C1005X5R225□ ETS	C1005X5R225 ET	1V , 1kHz	2.2	uF	±10%, ±20%	0.50	±0.20	±0.20	12.5%		(II)*
	C1005X5R475METS	C1005X5R475MET	1V , 1kHz	4.7	uF	±20%	0.50	±0.20	±0.20	12.5%		(II)*
	C1005X5R102□ DTS	C1005X5R102 DT	1V , 1kHz	1.0	nF	±10%, ±20%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X5R103KDTS	C1005X5R103KDT	1V , 1kHz	10	nF	±10%	0.50	±0.05	±0.05	7.5%		(l)
	C1005X5R153 DTS	C1005X5R153 DT	1V , 1kHz	15	nF	±10% , ±20%	0.50	±0.05	±0.05	7.5%		(l)
	C1005X5R223 DTS	C1005X5R223 DT	1V , 1kHz	22	nF	±10% , ±20%	0.50	±0.05	±0.05	7.5%		(l)
	C1005X5R333□ DTS C1005X5R473□ DTS	C1005X5R333 DT	1V , 1kHz	33 47	nF nE	±10% , ±20%	0.50	±0.05	±0.05 ±0.05	7.5%		(l)
	C1005X5R473 DTS C1005X5R563 DTS	C1005X5R473□ DT C1005X5R563□ DT	1V , 1kHz 1V , 1kHz	56	nF nF	±10% , ±20% ±10% , ±20%	0.50 0.50	±0.05 ±0.05	±0.05	7.5% 7.5%		(l)
	C1005X5R563 DTS	C1005X5R563 DT	1V , 1kHz	68	nF	±10%, ±20% ±10%, ±20%	0.50	±0.05	±0.05	7.5%		(l)
	C1005X5R8683 DTS	C1005X5R8683 DT	1V , 1kHz	82	nF	±10%, ±20% ±10%, ±20%	0.50	±0.05	±0.05	7.5%		(I)
	C1005X5R104 DTS	C1005X5R104 DT	1V , 1kHz	100	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%		(I)
	C1005X5R124 DTS	C1005X5R124 DT	1V , 1kHz	120	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%		(II)
10V	C1005X5R154 DTS	C1005X5R154 DT	1V , 1kHz	150	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%	Paper, 10Kpcs	(1)
	C1005X5R184 DTS	C1005X5R184□ DT	1V , 1kHz	180	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%		(I)
	C1005X5R224□ DTS	C1005X5R224□ DT	1V , 1kHz	220	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%		(II)
	C1005X5R334□ DTS	C1005X5R334□ DT	1V , 1kHz	330	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X5R394□ DTS	C1005X5R394□ DT	1V , 1kHz	390	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X5R474 DTS	C1005X5R474□ DT	1V , 1kHz	470	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(II)
1	C1005X5R684□ DTS	C1005X5R684□ DT	1V,1kHz	680	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X5R105□ DTS	C1005X5R105□ DT	1V,1kHz	1.0	uF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X5R225 DTS	C1005X5R225 DT	1V , 1kHz	2.2	uF	±10%, ±20%	0.50	±0.20	±0.20	10.0%		(II)*
	C1005X5R475 DTS	C1005X5R475 DT	1V , 1kHz	4.7	uF	±10%, ±20%	0.50	±0.15	±0.15	12.5%		(II)*
	C1005X5R106MDTS	C1005X5R106MDT	0.5V , 1kHz	10	uF	±20%	0.50	±0.20	±0.20	12.5%		(II)*
<u> </u>	C1005X5R226MDTS	C1005X5R226MDT	0.5V , 120Hz	22	uF	±20%	0.50	±0.30	±0.30	20.0%		(II)*
6 0) /	C1005X5R223KCTS	C1005X5R223KCT	1V , 1kHz	22	nF	±10%	0.50	±0.05	±0.05	7.5%	Donor 401/	(l)
6.3V	C1005X5R473KCTS	C1005X5R473KCT	1V , 1kHz	47	nF nF	±10%	0.50	±0.05	±0.05	7.5%	Paper, 10Kpcs	(l)
<u> </u>	C1005X5R104□ CTS	C1005X5R104□ CT	1V,1kHz	100	LIIF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(l)



RV	DARFON P/N	DARFON P/N 2	Measuring	Capaci	tance	Available	Thick.	Tolerand	e(mm)	DF	Standard	Test
RV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
	C1005X5R224□ CTS	C1005X5R224□ CT	1V , 1kHz	220	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X5R334□ CTS	C1005X5R334□ CT	1V , 1kHz	330	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%	Paper, 10Kpcs	(II)
	C1005X5R474 CTS	C1005X5R474□ CT	1V , 1kHz	470	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%	rapei, iunpos	(II)
	C1005X5R684□ CTS	C1005X5R684□ CT	1V , 1kHz	680	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X5R105MCTSA		1V , 1kHz	1.0	uF	±20%	0.30	±0.05	±0.03	12.5%	Paper, 15Kpcs	(II)*
6.3V	C1005X5R105□ CTS	C1005X5R105□ CT	0.5V , 1kHz	1.0	uF	±10%, ±20%	0.50	±0.05	±0.05	10.0%	Paper, 10Kpcs	(II)
0.30	C1005X5R225MCTSA		0.5V , 1kHz	2.2	uF	±20%	0.30	±0.05	±0.03	10.0%	Paper, 15Kpcs	(II)*
	C1005X5R225□ CTS	C1005X5R225□ CT	1V , 1kHz	2.2	uF	±10%, ±20%	0.50	±0.20	±0.20	10.0%	Paper, 10Kpcs	(II)*
	C1005X5R475MCTSA		0.5V , 1kHz	4.7	uF	±20%	0.30	±0.20	±0.03	10.0%	Paper, 15Kpcs	(II)*
	C1005X5R475 CTS	C1005X5R475□ CT	0.5V , 1kHz	4.7	uF	±10%, ±20%	0.50	±0.15	±0.15	10.0%		(II)*
	C1005X5R106MCTS	C1005X5R106MCT	0.5V , 1kHz	10	uF	±20%	0.50	±0.20	±0.20	15.0%	Paper, 10Kpcs	(II)
	C1005X5R226MCTS	C1005X5R226MCT	0.5V , 120Hz	22	uF	±20%	0.50	±0.20	±0.20	15.0%		(II)*
	C1005X5R105□ BTS	C1005X5R105□ BT	1V , 1kHz	1.0	uF	±10%, ±20%	0.50	±0.05	±0.05	15.0%	Paper, 10Kpcs	(II)
	C1005X5R225□ BTS	C1005X5R225□ BT	1V , 1kHz	2.2	uF	±10%, ±20%	0.50	±0.20	±0.20	10.0%	rapei, iunpos	(II)
4V	C1005X5R225MBTSA		0.5V , 1kHz	2.2	uF	±20%	0.30	±0.05	±0.03	10.0%	Paper, 15Kpcs	(II)
4 V	C1005X5R475□ BTS	C1005X5R475□ BT	0.5V , 1kHz	4.7	uF	±10%, ±20%	0.50	±0.15	±0.15	10.0%		(II)
	C1005X5R106MBTS	C1005X5R106MBT	0.5V , 1kHz	10	uF	±20%	0.50	±0.20	±0.20	15.0%	Paper, 10Kpcs	(II)
	C1005X5R226MBTS	C1005X5R226MBT	0.5V , 120Hz	22	uF	±20%	0.50	±0.20	±0.20	15.0%		(II)*

 $<sup>\</sup>hfill\Box$  Tolerance Code: K=±10%, M=±20% ;Special tolerance on the request.

<sup>(</sup>II)\* High temperature load life test are applicable in rated voltage \*100%. (II)/(II)\* are applied with derating voltage.

### • C1608X5R Series (EIA0603)

C1609SPRT02GCTS				Measuring	Capaci	tance	Available	Thick.	Tolerand	ce(mm)	DF	Standard	Test
C16008SR1102KG1S C1500SR26GT 1V. 1Hzlz 10.0 nF ±10% 0.80 ±0.10 ±0.10 ±0.5% 0.90 (C1600SR253SKGT 1V. 1Hzlz 10.0 nF ±10% 0.80 ±0.15 ±0.15 ±0.5% 0.90 (C1600SR253SKGT 1V. 1Hzlz 10.0 nF ±10% 0.80 ±0.15 ±	RV	DARFON P/N	DARFON P/N 2	•									Spec.
C16000XR130XR103		C1608X5R102KGTS	C1608X5R102KGT	1V 1kHz			+10%	` '					
C16080R74334K15] C16080R74103   17 V, 1842   33   nF	•												
\$\frac{0}{0}\$ \begin{picture}{cccccccccccccccccccccccccccccccccccc				,									(l)
C1600SR76224-GT   C1600SR7624-GT   TV , 110½   220   If													(II)
CHORDERFICES CTS	50V											Paper, 4Kpcs	(II)
C16008KR2226 15		C1608X5R474 GTS	C1608X5R474 GT		470	nF	±10%, ±20%	0.80	±0.15	±0.15	10.0%		(II)
C1689SRF1056 NTS		C1608X5R105 GTS	C1608X5R105□ GT	1V , 1kHz	1.0	uF	±10%, ±20%	0.80	±0.20	±0.20	10.0%		(II)
CT6009XFR475.NTS   CT6009XFR255.NT   V1, 1hHz   22   UF   ±10% ±20%   0.00   ±0.10   10.01%   10.01%   Paper, 4Kpcs   0.00   CT6009XFR475.NTS   CT6009XFR106MNT   V1, 1hHz   10   UF   ±20%   0.00   ±0.20   10.07%   0.00   10.00   10.00%   0.00   10.00   0.00   10.00   0.00		C1608X5R225 GTS	C1608X5R225 GT	1V , 1kHz	2.2	uF	±10%, ±20%	0.80	±0.20	±0.20	10.0%		(II)
STATE   CT-000000000000000000000000000000000000		C1608X5R105□ NTS	C1608X5R105□ NT	1V , 1kHz	1.0	uF	±10%, ±20%	0.80	±0.10	±0.10	10.0%		(II)
C1608SKR1045-E1NS C1608SKR175-NT 1V, 1kHz 10 uF ±20% 0.80 ±0.20 ±0.20 ±0.0% (0)  C1608SKR104-E1S C1608SKR104-ET 1V, 1kHz 100 nF ±10%, ±20% 0.80 ±0.10 ±0.10 ±0.10 5.0% (0)  C1608SKR104-E1S C1608SKR34KFT 1V, 1kHz 220 nF ±10%, ±20% 0.80 ±0.10 ±0.10 ±0.10 5.0% (0)  C1608SKR34KFTS C1608SKR34KFT 1V, 1kHz 330 nF ±10% 0.80 ±0.15 ±0.15 ±0.15 7.5% (0)  C1608SKR34KFTS C1608SKR34KFT 1V, 1kHz 330 nF ±10% 0.80 ±0.15 ±0.15 ±0.15 7.5% (0)  C1608SKR34KFTS C1608SKR34KFT 1V, 1kHz 330 nF ±10% 0.80 ±0.15 ±0.15 ±0.15 1.0% (0)  C1608SKR104-ETS C1608SKR34KFT 1V, 1kHz 10 uF ±10%, ±20% 0.80 ±0.10 ±0.15 ±0.15 1.0% (0)  C1608SKR104-ETS C1608SKR34KFT 1V, 1kHz 10 uF ±10%, ±20% 0.80 ±0.10 ±0.15 ±0.15 1.0% (0)  C1608SKR345-ETS C1608SKR35S-ET 1V, 1kHz 10 uF ±10%, ±20% 0.80 ±0.10 ±0.15 ±0.15 1.0% (0)  C1608SKR345-ETS C1608SKR35S-ET 1V, 1kHz 10 uF ±10%, ±20% 0.80 ±0.10 ±0.10 ±0.10 ±0.10 ±0.0% (0)  C1608SKR104-ETS C1608SKR35S-ET 1V, 1kHz 10 uF ±20% 0.80 ±0.20 ±0.20 ±0.20 ±0.0	25\/	C1608X5R225□ NTS	C1608X5R225□ NT	1V , 1kHz	2.2	uF	±10%, ±20%	0.80	±0.10	±0.10	10.0%	Danor Aknoo	(II)*
C1600XR104LF1TS C1600XR104CFT 1V, 181z 200 nF ±10%, ±20% 0.80 ±0.10 ±0.10 5.0% 0.0% 0.00	350	C1608X5R475 NTS	C1608X5R475□ NT	1V , 1kHz	4.7	uF	±10%, ±20%	0.80	±0.20	±0.20	10.0%	Paper, 4Kpcs	(II)*
C1600SRR234AFTS   C1600SR224AFT   V   NHz   220   nF   ±10%   ±20%   0.80   ±0.10   ±0.01   5.0%   (0.600SR234AFT   V   NHz   270   nF   ±10%   ±20%   0.80   ±0.10   ±0.10   5.0%   (0.600SR24AFT   V   NHz   470   nF   ±10%   ±20%   0.80   ±0.10   ±0.10   5.0%   (0.600SR24AFT   V   NHz   470   nF   ±10%   ±20%   0.80   ±0.10   ±0.10   5.0%   (0.600SR24AFT   V   NHz   470   nF   ±10%   ±20%   0.80   ±0.10   ±0.10   5.0%   (0.600SR24AFT   V   NHz   470   nF   ±10%   ±20%   0.80   ±0.15   ±0.15   10.0%   (0.600SR24AFT   V   NHz   470   nF   ±10%   ±20%   0.80   ±0.15   ±0.15   10.0%   (0.600SR24AFT   V   NHz   470   nF   ±10%   ±20%   0.80   ±0.15   ±0.15   10.0%   (0.600SR24AFT   V   NHz   470   nF   ±10%   ±20%   0.80   ±0.15   ±0.15   10.0%   (0.600SR24AFT   V   NHz   470   nF   ±10%   ±20%   0.80   ±0.15   ±0.15   ±0.0%   (0.600SR24AFT   V   NHz   470   nF   ±10%   ±20%   0.80   ±0.20		C1608X5R106MNTS	C1608X5R106MNT	1V , 1kHz	10	uF	±20%	0.80	±0.20	±0.20	10.0%		(II)*
C-6608/SR743-KFTS		C1608X5R104□ FTS	C1608X5R104□ FT	1V , 1kHz	100	nF	±10%, ±20%	0.80	±0.10	±0.10	5.0%		(l)
C1608/SRP14/LE   FTS			C1608X5R224□ FT	1V , 1kHz	220	nF	±10%, ±20%	0.80		±0.10			(l)
C1608/SR105-RT   C1608/SR105-FT   V1, V1-V2   E40%   2.29%   0.80   ±0.15   ±0.15   1.05%   Paper, 4Kpcs   (ii)   C1608/SR105-FT   V1, V1-V2		C1608X5R334KFTS	C1608X5R334KFT	1V , 1kHz	330	nF	±10%	0.80	±0.15	±0.15	7.5%		(l)
25V   C1608XRR105: FTS   C1608XRR105: FT   IV, 1kHz   1.0   uF   ±10% ±20%   0.80   0.10   ±0.10   10.0%   1		C1608X5R474 FTS	C1608X5R474 FT	1V , 1kHz		nF		0.80			5.0%		(II)
C1608XR105E FTSB   TV , 1kHz   1.0													(II)
C1608X6F1256: FTS	25V		C1608X5R105□ FT									Paper, 4Kpcs	(II)
C1608X5R195: FTS							,						(II)*
C1608X5R106MFTS   C1608X5R106MFT   1V, 1kHz   4.7							•	_					(II)
C1688XSR106METS													(II)
C1608X5R104: ETS													(II)
C1608XSR24d=ETS													(II)
C1608XSR340 ETS													(l)
C1608XSR4740_ETS				,			,						(l)
C1608XSR105a ETS							•						(l)
16V   C1608XSR105c ETS   C1608XSR105c ET   1V, 1kHz   1.0   UF   ±10% ±20%   0.80   ±0.10   ±0.10   10.0%   Paper, 4Kpcs   (III   C1608XSR125c ETS   C1608XSR225c ETS   1V, 1kHz   1.0   UF   ±10% ±20%   0.80   ±0.15   ±0.15   10.0%   (III   UF   UF   UF   UF   UF   UF   UF							,						
C1608XSR105:: ETSB	40) (						,					D 416	
C1608X5R225c ETS	160		C1608X5R105= E1				,					Paper, 4Kpcs	_ ` '
C1608X5R335a ETS			C4C00VED00E ET				,						
C1608XSR475□ ETS				,			,						
C1608X5R106□ ETS													` '
C1608X5R104□ DTS				,									` '
C1608X5R224□ DTS													
C1608X5R334							,						
C1608X5R474	-			,			,						
C1608X5R684□ DTS	·						•						
C1608X5R105□ DTS	·						,						
C1608X5R105□ DTSB				,			,						
10V   C1608X5R225□ DTS   C1608X5R225□ DT   1V , 1kHz   2.2   UF			01000/011000 01				,						
C1608X5R225□ DTSB	10V		C1608X5R225⊓ DT				,					Paper, 4Kpcs	(II)
C1608X5R335□ DTS			0.1000/10.12203 3.1				,						(II)*
C1608X5R475□ DTS			C1608X5R335□ DT										(II)
C1608X5R475□ DTSB				,									(II)
C1608X5R226MDTS C1608X5R226MDT 0.5V , 120Hz 22 uF ±20% 0.80 ±0.25 ±0.25 15.0% (II) C1608X5R226MDWS C1608X5R226MDW 0.5V , 120Hz 22 uF ±20% 0.80 ±0.20 ±0.20 10.0% Embossed, 4Kpcs (II) C1608X5R104□ CTS C1608X5R104□ CT 1V , 1kHz 100 nF ±10% , ±20% 0.80 ±0.10 ±0.10 7.5% C1608X5R105□ CTS C1608X5R105□ CT 1V , 1kHz 1.0 uF ±10% , ±20% 0.80 ±0.10 ±0.10 7.5% C1608X5R225□ CTS C1608X5R225□ CT 1V , 1kHz 2.2 uF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0% C1608X5R205□ CTS C1608X5R475□ CT 1V , 1kHz 4.7 uF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0% C1608X5R106□ CTS C1608X5R475□ CT 1V , 1kHz 10 uF ±20% 0.50 ±0.10 ±0.10 10.0% C1608X5R106□ CTS C1608X5R106□ CT 1V , 1kHz 10 uF ±20% 0.80 ±0.15 ±0.15 10.0% C1608X5R26MCTS C1608X5R226MCT 0.5V , 120Hz 22 uF ±20% 0.80 ±0.20 ±0.20 15.0% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 22 uF ±20% 0.80 ±0.20 ±0.20 15.0% (II) C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 22 uF ±20% 0.80 ±0.20 ±0.20 15.0% (III) C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 22 uF ±20% 0.80 ±0.20 ±0.20 15.0% (III) C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 22 uF ±20% 0.80 ±0.20 ±0.20 15.0% (III) C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 22 uF ±20% 0.80 ±0.20 ±0.20 15.5% (III) C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 uF ±20% 0.80 ±0.20 ±0.20 15.5%		C1608X5R475 DTSB			4.7	uF	±10%, ±20%	0.50	±0.20	±0.05	10.0%		(II)
C1608X5R226MDTS C1608X5R226MDT 0.5V , 120Hz 22 uF ±20% 0.80 ±0.25 ±0.25 15.0% (II) C1608X5R226MDWS C1608X5R226MDW 0.5V , 120Hz 22 uF ±20% 0.80 ±0.20 ±0.20 10.0% Embossed, 4Kpcs (II) C1608X5R104□ CTS C1608X5R105□ CT 1V , 1kHz 100 nF ±10% , ±20% 0.80 ±0.10 ±0.10 7.5% C1608X5R105□ CTS C1608X5R105□ CT 1V , 1kHz 1.0 uF ±10% , ±20% 0.80 ±0.10 ±0.10 7.5% C1608X5R225□ CTS C1608X5R25□ CT 1V , 1kHz 2.2 uF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0% C1608X5R205□ CTS C1608X5R475□ CT 1V , 1kHz 4.7 uF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0% C1608X5R106□ CTS C1608X5R475□ CT 1V , 1kHz 10 uF ±20% 0.50 ±0.10 ±0.10 10.0% C1608X5R106□ CTS C1608X5R106□ CT 1V , 1kHz 10 uF ±20% 0.80 ±0.15 ±0.15 10.0% C1608X5R256MCTS C1608X5R256MCT 0.5V , 120Hz 22 uF ±20% 0.80 ±0.20 ±0.20 15.0% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 22 uF ±20% 0.80 ±0.20 ±0.20 15.0% (II) C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 22 uF ±20% 0.80 ±0.20 ±0.20 15.0% (III) C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 22 uF ±20% 0.80 ±0.20 ±0.20 15.0% (III) C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 22 uF ±20% 0.80 ±0.20 ±0.20 15.0% (III) C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 uF ±20% 0.80 ±0.20 ±0.20 15.5%	ľ	C1608X5R106□ DTS	C1608X5R106□ DT		10	uF		0.80	±0.20	±0.20	10.0%		(II)*
6.3V C1608X5R106□ CTS C1608X5R106□ CT 1V , 1kHz 10 uF ±10% , ±20% 0.80 ±0.10 ±0.10 7.5% (II) C1608X5R105□ CTS C1608X5R475□ CT 1V , 1kHz 2.2 uF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0% (II) C1608X5R105□ CTS C1608X5R475□ CT 1V , 1kHz 4.7 uF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0% (II) C1608X5R106□ CTS C1608X5R475□ CT 1V , 1kHz 10 uF ±20% 0.50 ±0.10 ±0.10 10.0% (II) C1608X5R106□ CTS C1608X5R106□ CT 1V , 1kHz 10 uF ±20% 0.50 ±0.10 ±0.10 10.0% (II) C1608X5R226□ CTS C1608X5R476□ CT 1V , 1kHz 10 uF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0% (II) C1608X5R106□ CTS C1608X5R106□ CT 1V , 1kHz 10 uF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0% (II) C1608X5R26□ CTS C1608X5R26□ CT 1V , 1kHz 10 uF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0% (II) C1608X5R26□ CTS C1608X5R26□ CT 1V , 1kHz 10 uF ±20% 0.80 ±0.20 ±0.20 15.0% (II) C1608X5R476□ CTS C1608X5R476□ 0.5V , 120Hz 22 uF ±20% 0.80 ±0.20 ±0.20 15.0% (II)		C1608X5R226MDTS			22	uF		0.80	±0.25	±0.25	15.0%		(II)*
6.3V C1608X5R106□ CTS C1608X5R106□ CT 1V , 1kHz 10 uF ±10% , ±20% 0.80 ±0.10 ±0.10 7.5% (II) C1608X5R105□ CTS C1608X5R475□ CT 1V , 1kHz 2.2 uF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0% (II) C1608X5R105□ CTS C1608X5R475□ CT 1V , 1kHz 4.7 uF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0% (II) C1608X5R106□ CTS C1608X5R475□ CT 1V , 1kHz 10 uF ±20% 0.50 ±0.10 ±0.10 10.0% (II) C1608X5R106□ CTS C1608X5R106□ CT 1V , 1kHz 10 uF ±20% 0.50 ±0.10 ±0.10 10.0% (II) C1608X5R226□ CTS C1608X5R476□ CT 1V , 1kHz 10 uF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0% (II) C1608X5R106□ CTS C1608X5R106□ CT 1V , 1kHz 10 uF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0% (II) C1608X5R26□ CTS C1608X5R26□ CT 1V , 1kHz 10 uF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0% (II) C1608X5R26□ CTS C1608X5R26□ CT 1V , 1kHz 10 uF ±20% 0.80 ±0.20 ±0.20 15.0% (II) C1608X5R476□ CTS C1608X5R476□ 0.5V , 120Hz 22 uF ±20% 0.80 ±0.20 ±0.20 15.0% (II)		C1608X5R226MDWS	C1608X5R226MDW	0.5V , 120Hz	22	иF	±20%	0.80	±0.20	±0.20	10.0%	Embossed, 4Kpcs	(II)*
6.3V C1608X5R105□ CTS C1608X5R105□ CT 1V , 1kHz 1.0 UF ±10% , ±20% 0.80 ±0.10 ±0.10 7.5%   (II)   C1608X5R225□ CTS C1608X5R225□ CT 1V , 1kHz 2.2 UF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0%   (II)   C1608X5R475□ CTS C1608X5R475□ CT 1V , 1kHz 4.7 UF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0%   (II)   C1608X5R106MCTSB 0.5V , 1kHz 10 UF ±20% 0.50 ±0.10 ±0.10 10.0%   (II)   C1608X5R106□ CTS C1608X5R106□ CT 1V , 1kHz 10 UF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0%   (II)   C1608X5R226MCTS C1608X5R226MCT 0.5V , 120Hz 22 UF ±20% 0.80 ±0.20 ±0.20 15.0%   (II)   C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5%   (II)   C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5%   (II)   C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5%   (II)   C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5%   (II)   C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5%   (II)   C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5%   (II)   C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5%   (II)   C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5%   (II)   C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5%   (II)   C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5%   (II)   C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5%   (II)   C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5%   (II)   C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5%   (II)   C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5%   (II)   C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0					100	nF	±10%, ±20%		±0.10			·	(l)
6.3V C1608X5R475□ CTS C1608X5R475□ CT 1V , 1kHz 4.7 UF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0% C1608X5R106MCTSB 0.5V , 1kHz 10 UF ±20% 0.50 ±0.10 ±0.10 10.0% C1608X5R106□ CTS C1608X5R106□ CT 1V , 1kHz 10 UF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0% C1608X5R226MCTS C1608X5R226MCT 0.5V , 120Hz 22 UF ±20% 0.80 ±0.20 ±0.20 15.0% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0					1.0	uF		0.80					(II)
6.3V C1608X5R475□ CTS C1608X5R475□ CT 1V , 1kHz 4.7 UF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0% C1608X5R106MCTSB 0.5V , 1kHz 10 UF ±20% 0.50 ±0.10 ±0.10 10.0% C1608X5R106□ CTS C1608X5R106□ CT 1V , 1kHz 10 UF ±10% , ±20% 0.80 ±0.15 ±0.15 10.0% C1608X5R226MCTS C1608X5R226MCT 0.5V , 120Hz 22 UF ±20% 0.80 ±0.20 ±0.20 15.0% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCTS C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.20 ±0.20 12.5% C1608X5R476MCT 0.5V , 120Hz 47 UF ±20% 0.80 ±0.2		C1608X5R225 CTS	C1608X5R225□ CT	1V , 1kHz	2.2	uF	±10%, ±20%	0.80	±0.15	±0.15	10.0%		(II)
C1608X5R106MCTSB   0.5V , 1kHz   10	631/	C1608X5R475 CTS	C1608X5R475□ CT	1V , 1kHz	4.7	uF	±10%, ±20%	0.80	±0.15	±0.15	10.0%	Papar 41/200	(II)
C1608X5R226MCTS         C1608X5R226MCT         0.5V , 120Hz         22         uF         ±20%         0.80         ±0.20         ±0.20         15.0%           C1608X5R476MCTS         C1608X5R476MCT         0.5V , 120Hz         47         uF         ±20%         0.80         ±0.20         ±0.20         12.5%           (II)	0.30	C1608X5R106MCTSB		0.5V , 1kHz	10	uF		0.50	±0.10	±0.10	10.0%	rapei, 4Npcs	(II)*
C1608X5R226MCTS         C1608X5R226MCT         0.5V , 120Hz         22         uF         ±20%         0.80         ±0.20         ±0.20         15.0%           C1608X5R476MCTS         C1608X5R476MCT         0.5V , 120Hz         47         uF         ±20%         0.80         ±0.20         ±0.20         12.5%           (II)		C1608X5R106 CTS	C1608X5R106□ CT	1V , 1kHz	10	uF	±10%, ±20%	0.80	±0.15	±0.15	10.0%		(II)*
		C1608X5R226MCTS	C1608X5R226MCT	0.5V , 120Hz	22	uF		0.80	±0.20	±0.20	15.0%		(II)*
04000VFD4004PT0	ľ	C1608X5R476MCTS	C1608X5R476MCT	0.5V , 120Hz	47	uF	±20%	0.80	±0.20	±0.20	12.5%		(II)*
Стоижъжтиоми IS   Стоижъжниоми   1V , 1кнz   10   u-		C1608X5R106MBTS	C1608X5R106MBT	1V , 1kHz	10	uF	±20%	0.80	±0.10	±0.10	10.0%		(II)
4V C1608X5R226MBTS C1608X5R226MBT 0.5V , 120Hz 22 uF ±20% 0.80 ±0.20 ±0.20 10.0% Paper, 4Kpcs (II)	4V	C1608X5R226MBTS	C1608X5R226MBT	0.5V , 120Hz	22	uF	±20%	0.80	±0.20	±0.20	10.0%	Paper, 4Kpcs	(II)*
C1608X5R476MBTS   C1608X5R476MBT   0.5V , 120Hz   47   uF   ±20%   0.80   ±0.20   ±0.20   12.5%   (II)		C1608X5R476MBTS	C1608X5R476MBT	0.5V , 120Hz	47	uF	±20%	0.80	±0.20	±0.20	12.5%		(II)*

 $<sup>\</sup>hfill\Box$  Tolerance Code: K=±10%, M=±20% ;Special tolerance on the request.

<sup>(</sup>II)\* High temperature load life test are applicable in rated voltage \*100%. (II)/(II)\* are applied with derating voltage.

### • C2012X5R Series (EIA0805)

			Measuring	Capaci	tance	Available	Thick.	Tolerand	e(mm)	DF	Standard	Test
RV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
	C2012X5R224KGTS	C2012X5R224KGT	1V , 1kHz	220	nF	±10%	0.85	±0.15	±0.15	10.0%	D 414	(II)
•	C2012X5R105 GTS	C2012X5R105□ GT	1V , 1kHz	1.0	uF	±10%, ±20%	0.85	±0.15	±0.15	10.0%	Paper, 4Kpcs	(II)
i	C2012X5R105 GPS	C2012X5R105□ GP	1V , 1kHz	1.0	uF	±10%, ±20%	1.25	±0.15	±0.20	10.0%	Embossed, 3Kpcs	(II)
50V	C2012X5R225 GTS	C2012X5R225 GT	1V , 1kHz	2.2	uF	±10%, ±20%	0.85	±0.20	±0.15	10.0%	Paper, 4Kpcs	(II)
ľ	C2012X5R225 GPS	C2012X5R225□ GP	1V , 1kHz	2.2	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%		(II)
	C2012X5R475 GPS	C2012X5R475□ GP	1V , 1kHz	4.7	uF	±10%, ±20%	1.25	±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)*
	C2012X5R106 GPS	C2012X5R106□ GP	1V , 1kHz	10	uF	±10%, ±20%	1.25	±0.20	±0.20	10.0%		(II)*
35V	C2012X5R106□ NPS	C2012X5R106□ NP	1V , 1kHz	10	uF	±10%, ±20%	1.25	±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)*
35V	C2012X5R226MNWS	C2012X5R226MNW	0.5V , 120Hz	22	uF	±20%	1.25	±0.20	±0.20	15.0%	Embossed, 2Kpcs	(II)*
	C2012X5R474 FPS	C2012X5R474□ FP	1V , 1kHz	470	nF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	5.0%	Embossed, 3Kpcs	(l)
	C2012X5R105□ FTS	C2012X5R105□ FT	1V , 1kHz	1.0	uF	±10%, ±20%	0.85	±0.15	±0.10	10.0%	Paper, 4Kpcs	(II)
	C2012X5R105□ FPS	C2012X5R105□ FP	1V , 1kHz	1.0	uF	±10%, ±20%	1.25	±0.20	±0.20	10.0%	Embossed, 3Kpcs	(l)
	C2012X5R225 FTS	C2012X5R225 FT	1V , 1kHz	2.2	uF	±10%, ±20%	0.85	±0.20	±0.10	10.0%	Paper, 4Kpcs	(II)
	C2012X5R225 FPS	C2012X5R225□ FP	1V , 1kHz	2.2	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)
25V	C2012X5R475 FTS	C2012X5R475 FT	1V , 1kHz	4.7	uF	±10%, ±20%	0.85	±0.20	±0.10	10.0%	Paper, 4Kpcs	(II)*
	C2012X5R475 FPS	C2012X5R475□ FP	1V , 1kHz	4.7	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)
	C2012X5R106□ FTS	C2012X5R106□ FT	1V , 1kHz	10	uF	±10%, ±20%	0.85	±0.20	±0.10	12.5%	Paper, 4Kpcs	(II)*
	C2012X5R106□ FPS	C2012X5R106□ FP	1V , 1kHz	10	uF	±10%, ±20%	1.25	±0.20	±0.20	12.5%	Embossed, 3Kpcs	(II)*
	C2012X5R226MFPS	C2012X5R226MFP	0.5V , 120Hz	22	uF	±20%	1.25	±0.20	±0.20	15.0%	Embosseu, ortpos	(II)*
	C2012X5R226MFWS	C2012X5R226MFW	0.5V , 120Hz	22	uF	±20%	1.25	±0.20	±0.20	15.0%	Embossed, 2Kpcs	(II)*
	C2012X5R105□ ETS	C2012X5R105 ET	1V , 1kHz	1.0	uF	±10%, ±20%	0.85	±0.15	±0.15	10.0%	Paper, 4Kpcs	(II)
	C2012X5R105 EPS	C2012X5R105□ EP	1V , 1kHz	1.0	uF	±10%, ±20%	1.25	±0.15	±0.20	10.0%	Embossed, 3Kpcs	(l)
	C2012X5R225 EPS	C2012X5R225□ EP	1V , 1kHz	2.2	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)
	C2012X5R335 EPS	C2012X5R335□ EP	1V , 1kHz	3.3	uF	±10%, ±20%	1.25	±0.20	±0.20	10.0%	Ellibosseu, arpcs	(II)
16V	C2012X5R475 ETS	C2012X5R475□ ET	0.5V , 1kHz	4.7	uF	±10%, ±20%	0.85	±0.20	±0.10	10.0%	Paper, 4Kpcs	(II)
100	C2012X5R475 EPS	C2012X5R475□ EP	1V , 1kHz	4.7	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)
	C2012X5R106□ ETS	C2012X5R106 ET	1V , 1kHz	10	uF	±10%, ±20%	0.85	±0.15	±0.10	10.0%	Paper, 4Kpcs	(II)*
	C2012X5R106□ EPS	C2012X5R106□ EP	1V , 1kHz	10	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)*
	C2012X5R226METS	C2012X5R226MET	0.5V , 120Hz	22	uF	±20%	0.85	±0.20	±0.10	10.0%	Paper, 4Kpcs	(II)*
	C2012X5R226□ EPS	C2012X5R226□ EP	0.5V , 120Hz	22	uF	±10%, ±20%	1.25	±0.20	±0.20	15.0%	Embossed, 3Kpcs	(II)*
	C2012X5R105 DPS	C2012X5R105□ DP	1V , 1kHz	1.0	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)
	C2012X5R225 DTS	C2012X5R225 DT	1V , 1kHz	2.2	uF	±10%, ±20%	0.85	±0.15	±0.10	10.0%	Paper, 4Kpcs	(II)
	C2012X5R225 DPS	C2012X5R225 DP	1V , 1kHz	2.2	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%		(II)
	C2012X5R335 DPS	C2012X5R335□ DP	1V,1kHz	3.3	uF	±10%, ±20%	1.25	±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)
10V	C2012X5R475 DPS	C2012X5R475 DP	1V,1kHz	4.7	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%		(II)
	C2012X5R106 DTS	C2012X5R106 DT	0.5V , 1kHz	10	uF	±10%, ±20%	0.85	±0.20	±0.10	10.0%	Paper, 4Kpcs	(II)
	C2012X5R106□ DPS	C2012X5R106□ DP	1V , 1kHz	10	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)
	C2012X5R226MDTS	C2012X5R226MDT	0.5V , 120Hz	22	uF	±20%	0.85	±0.20	±0.10	10.0%	Paper, 4Kpcs	(II)*
	C2012X5R226MDPS	C2012X5R226MDP	0.5V , 120Hz	22	uF	±20%	1.25	±0.20	±0.20	15.0%	Embossed, 3Kpcs	(II)*
	C2012X5R476MDPS	C2012X5R476MDP	0.5V , 120Hz	47	uF	±20%	1.25	±0.20	±0.20	10.0%		(II)*
	C2012X5R225KCTS	C2012X5R225KCT	1V , 1kHz	2.2	uF	±10%	0.85	±0.15	±0.10	10.0%	Paper, 4Kpcs	(II)
	C2012X5R225 CPS	C2012X5R225 CP	1V , 1kHz	2.2	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%		(II)
	C2012X5R335□ CPS	C2012X5R335□ CP	1V , 1kHz	3.3	uF	±10%, ±20%	1.25	±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)
	C2012X5R475 CPS	C2012X5R475□ CP	1V , 1kHz	4.7	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%		(l)
	C2012X5R106 CTS	C2012X5R106 CT	0.5V , 1kHz	10	uF	±10%, ±20%	0.85	±0.20	±0.15	10.0%	Paper, 4Kpcs	(II)
6.3V	C2012X5R106□ CPS	C2012X5R106□ CP	1V , 1kHz	10	uF	±10% , ±20%	1.25	±0.15/±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)
	C2012X5R226MCTS	C2012X5R226MCT	0.5V , 120Hz	22	uF	±20%	0.85	±0.15	±0.15	10.0%	Paper, 4Kpcs	(II)
	C2012X5R226□ CPS	C2012X5R226□ CP	0.5V , 120Hz	22	uF	±10% , ±20%	1.25	±0.15	±0.15	10.0%	Embossed, 3Kpcs	(II)
	C2012X5R476MCTS	C2012X5R476MCT	0.5V , 120Hz	47	uF	±20%	0.85	±0.20	±0.15	10.0%	Paper, 4Kpcs	(II)*
	C2012X5R476MCPS	C2012X5R476MCP	0.5V , 120Hz	47	uF	±20%	1.25	±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)*
	C2012X5R107MCPS	C2012X5R107MCP	0.5V , 120Hz	100	uF	±20%	1.25	±0.20	±0.20	15.0%	Embossed, 3Kpcs	(II)*
	C2012X5R226MBPS	C2012X5R226MBP	0.5V , 120Hz	22	uF	±20%	1.25	±0.15	±0.15	10.0%		(II)
4V	C2012X5R476MBPS	C2012X5R476MBP	0.5V , 120Hz	47	uF	±20%	1.25	±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)*
	C2012X5R107MBPS	C2012X5R107MBP	0.5V , 120Hz	100	uF	±20%	1.25	±0.20	±0.20	15.0%		(II)*

 $<sup>\</sup>hfill\Box$  Tolerance Code: K=±10%, M=±20% ;Special tolerance on the request.

<sup>(</sup>II)\* High temperature load life test are applicable in rated voltage \*100%. (II)/(II)\* are applied with derating voltage.

### • C3216X5R Series (EIA1206)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capaci	tance	Available	Thick.	Tolerand	e(mm)	DF	Standard	Test
RV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
	C3216X5R105KGPS	C3216X5R105KGP	1V , 1kHz	1.0	uF	±10%	1.60	±0.30	±0.30	3.5%	Embossed, 2Kpcs	(l)
l i	C3216X5R225 GTS	C3216X5R225□ GT	1V , 1kHz	2.2	uF	±10%, ±20%	0.85	±0.15	±0.10	10.0%	Paper, 4Kpcs	(II)
50V	C3216X5R225KGPS	C3216X5R225KGP	1V , 1kHz	2.2	uF	±10%	1.60	±0.20	±0.20	10.0%	Embossed, 2Kpcs	(II)
500	C3216X5R475 GTS	C3216X5R475□ GT	1V , 1kHz	4.7	uF	±10%, ±20%	0.85	±0.15	±0.10	10.0%	Paper, 4Kpcs	(II)
	C3216X5R475 GPS	C3216X5R475□ GP	1V , 1kHz	4.7	uF	±10%, ±20%	1.60	±0.20	±0.30	10.0%	Embossed, 2Kpcs	(II)
	C3216X5R106□ GPS	C3216X5R106□ GP	1V , 1kHz	10	uF	±10%, ±20%	1.60	±0.20	±0.20	10.0%	Ellibosseu, ZKpcs	(II)
	C3216X5R225 NPS	C3216X5R225□ NP	1V , 1kHz	2.2	uF	±10%, ±20%	1.60	±0.20	±0.30	10.0%	Embossed, 2Kpcs	(II)
35V	C3216X5R106□ NTS	C3216X5R106□ NT	1V , 1kHz	10	uF	±10%, ±20%	0.85	±0.15	±0.10	10.0%	Paper, 4Kpcs	(II)*
	C3216X5R106 NPS	C3216X5R106□ NP	1V , 1kHz	10	uF	±10%, ±20%	1.60	±0.20	±0.30	10.0%	Embossed, 2Kpcs	(II)
	C3216X5R105KFTSE		1V , 1kHz	1.0	uF	±10%	0.85	±0.15	±0.10	3.5%	Paper, 4Kpcs	(l)
	C3216X5R105KFPSL	C3216X5R105KFP	1V , 1kHz	1.0	uF	±10%	1.60	±0.30	±0.30	3.5%	Embossed, 2Kpcs	(l)
	C3216X5R225 FPS	C3216X5R225□ FP	1V , 1kHz	2.2	uF	±10%, ±20%	1.60	±0.20	±0.30	5.0%		(l)
25V	C3216X5R475 FPS	C3216X5R475□ FP	1V , 1kHz	4.7	uF	±10%, ±20%	1.60	±0.20	±0.30	5.0%	Embossed, 2Kpcs	(II)
250	C3216X5R106□ FPS	C3216X5R106□ FP	1V , 1kHz	10	uF	±10%, ±20%	1.60	±0.20	±0.30	10.0%		(II)
ĺ	C3216X5R226MFTSE	C3216X5R226MFT	0.5V , 120Hz	22	uF	±20%	0.85	±0.20	±0.20	10.0%	Paper, 4Kpcs	(II)*
-	C3216X5R226 FPSL	C3216X5R226□ FP	0.5V , 120Hz	22	uF	±10%, ±20%	1.60	±0.30	±0.30	10.0%	Embossed, 2Kpcs	(II)*
	C3216X5R476MFPSL	C3216X5R476MFP	0.5V , 120Hz	47	uF	±20%	1.60	±0.30	±0.30	15.0%	Lilibosseu, Zitpos	(II)*
	C3216X5R225 EPS	C3216X5R225□ EP	1V , 1kHz	2.2	uF	±10%, ±20%	1.60	±0.20	±0.30	5.0%		(l)
	C3216X5R475 EPS	C3216X5R475□ EP	1V , 1kHz	4.7	uF	±10%, ±20%	1.60	±0.20	±0.30	5.0%	Embossed, 2Kpcs	(II)
16V	C3216X5R106 EPS	C3216X5R106□ EP	1V , 1kHz	10	uF	±10%, ±20%	1.60	±0.20	±0.30	10.0%	Lilibosseu, Zixpos	(II)
ĺ	C3216X5R226 EPS	C3216X5R226□ EP	0.5V , 120Hz	22	uF	±10%, ±20%	1.60	±0.20	±0.30	10.0%		(II)
	C3216X5R476MEPS	C3216X5R476MEP	0.5V , 120Hz	47	uF	±20%	1.60	±0.30	±0.30	10.0%	Embossed,2Kpcs	(II)
	C3216X5R225 DPS	C3216X5R225□ DP	1V , 1kHz	2.2	uF	±10%, ±20%	1.60	±0.20	±0.30	7.5%		(l)
	C3216X5R475 DPS	C3216X5R475□ DP	1V , 1kHz	4.7	uF	±10%, ±20%	1.60	±0.20	±0.30	7.5%	Embossed, 2Kpcs	(II)
10V	C3216X5R106 DPS	C3216X5R106□ DP	1V , 1kHz	10	uF	±10%, ±20%	1.60	±0.30	±0.30	10.0%		(II)
ĺ	C3216X5R226 DPS	C3216X5R226□ DP	0.5V , 120Hz	22	uF	±10%, ±20%	1.60	±0.30	±0.30	10.0%	Embossed, 2Kpcs	(II)
ĺ	C3216X5R476 DPS	C3216X5R476□ DP	0.5V , 120Hz	47	uF	±10%, ±20%	1.60	±0.30/±0.20	±0.20	10.0%	Ellibosseu, ZKpcs	(II)
	C3216X5R106KCPS	C3216X5R106KCP	1V , 1kHz	10	uF	±10%	1.60	±0.20	±0.30	15.0%		(II)
6 3)/	C3216X5R226 CPS	C3216X5R226□ CP	0.5V , 120Hz	22	uF	±10%, ±20%	1.60	±0.20	±0.30	15.0%	Embossed, 2Kpcs	(II)
6.3V	C3216X5R476MCPS	C3216X5R476MCP	0.5V , 120Hz	47	uF	±20%	1.60	±0.20	±0.20	10.0%	Ellibosseu, ZKpcs	(II)
	C3216X5R107MCPS	C3216X5R107MCP	0.5V , 120Hz	100	uF	±20%	1.60	±0.30	±0.30	15.0%		(II)
	C3216X5R226 BPS	C3216X5R226□ BP	0.5V , 120Hz	22	uF	±10%, ±20%	1.60	±0.20	±0.30	15.0%		(II)
4\/	C3216X5R476MBPS	C3216X5R476MBP	0.5V , 120Hz	47	uF	±20%	1.60	±0.20	±0.30	15.0%	Embassed Okass	(II)
4V -	C3216X5R107MBPS	C3216X5R107MBP	0.5V , 120Hz	100	uF	±20%	1.60	±0.30	±0.30	15.0%	Embossed, 2Kpcs	(II)
	C3216X5R227MBPSL	C3216X5R227MBP	0.5V , 120Hz	220	uF	±20%	1.60	±0.30	±0.30	15.0%	1	(II)

#### • C3225X5R Series (EIA1210)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capaci	tance	Available	Thick.	Tolerand	e(mm)	DF	Standard	Test
ΚV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
50V	C3225X5R106 GPS	C3225X5R106□ GP	1V , 1kHz	10	uF	±10%, ±20%	2.50	±0.30/±0.20	±0.20	5.0%	Embossed, 1Kpcs	(II)
35V	C3225X5R106□ NPS	C3225X5R106□ NP	1V, 1kHz	10	uF	±10%, ±20%	2.50	±0.30/±0.20	±0.20	5.0%	Embossed, 1Kpcs	(l)
	C3225X5R475 FWS	C3225X5R475□ FW	1V , 1kHz	4.7	uF	±10%, ±20%	2.00	±0.30/±0.20	±0.20	10.0%	Embossed, 1Kpcs	(l)
25V	C3225X5R106□ FPS	C3225X5R106□ FP	1V , 1kHz	10	uF	±10%, ±20%	2.00	±0.30/±0.20	±0.20	10.0%	Embossed, 2Kpcs	(l)
	C3225X5R226□ FPS	C3225X5R226□ FP	0.5V , 120Hz	22	uF	±10%, ±20%	2.50	±0.30/±0.20	±0.20	10.0%	Embossed, 1Kpcs	(II)
	C3225X5R475 EWS	C3225X5R475□ EW	1V , 1kHz	4.7	uF	±10%, ±20%	2.00	±0.30/±0.20	±0.20	5.0%	Embossed, 1Kpcs	(l)
	C3225X5R106□ EPS	C3225X5R106□ EP	1V , 1kHz	10	uF	±10%, ±20%	2.00	±0.30/±0.20	±0.20	5.0%	Embossed, 2Kpcs	(l)
16V	C3225X5R226 EWS	C3225X5R226□ EW	0.5V , 120Hz	22	uF	±10%, ±20%	2.50	±0.30/±0.20	±0.20	15.0%	Embossed,0.5Kpcs	(II)
	C3225X5R226□ EPS	C3225X5R226□ EP	0.5V , 120Hz	22	uF	±10%, ±20%	2.50	±0.30/±0.20	±0.20	10.0%	Embossed, 1Kpcs	(II)
	C3225X5R476□ EPS	C3225X5R476□ EP	0.5V , 120Hz	47	uF	±10%, ±20%	2.50	±0.30/±0.20	±0.20	15.0%	Embossed, 1Kpcs	(II)
	C3225X5R107MEPS	C3225X5R107MEP	0.5V , 120Hz	100	uF	±20%	2.50	±0.30	±0.30	10.0%	Ellibosseu, inpcs	(II)
	C3225X5R106KDPS	C3225X5R106KDP	1V , 1kHz	10	uF	±10%	2.00	±0.30/±0.20	±0.20	5.0%	Embossed, 2Kpcs	(l)
10V	C3225X5R226□ DPS	C3225X5R226□ DP	0.5V , 120Hz	22	uF	±10%, ±20%	2.50	±0.30/±0.20	±0.20	10.0%		(II)
100	C3225X5R476□ DPS	C3225X5R476□ DP	0.5V , 120Hz	47	uF	±10%, ±20%	2.50	±0.30/±0.20	±0.20	10.0%	Embossed, 1Kpcs	(II)
	C3225X5R107MDPS	C3225X5R107MDP	0.5V , 120Hz	100	uF	±20%	2.50	±0.30/±0.20	±0.30	10.0%		(II)
	C3225X5R226□ CPS	C3225X5R226□ CP	0.5V , 120Hz	22	uF	±10%, ±20%	2.50	±0.30/±0.20	±0.20	10.0%		(II)
6.3V	C3225X5R476□ CPS	C3225X5R476□ CP	0.5V , 120Hz	47	uF	±10%, ±20%	2.50	±0.30/±0.20	±0.20	15.0%	Embossed, 1Kpcs	(II)
	C3225X5R107MCPS	C3225X5R107MCP	0.5V , 120Hz	100	uF	±20%	2.50	±0.30	±0.30	15.0%		(II)

#### • C4532X5R Series (EIA1812)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capaci	tance	Available	Thick.	Tolerand	ce(mm)	DF	Standard	Test
ΚV	DARFON F/N	DARFON P/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
50V	C4532X5R225KGPS	C4532X5R225KGP	1V, 1kHz	2.2	uF	±10%	1.60	±0.30	±0.20	10.0%	Embossed, 1Kpcs	(II)*

 $\hfill\Box$  Tolerance Code: K=±10%, M=±20% ;Special tolerance on the request.;

(II)\* High temperature load life test are applicable in rated voltage \*100%. (II)/(II)\* are applied with derating voltage.

#### ■ X6S Series

#### • C0603X6S Series (EIA0201)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capaci	tance	Available	Thick.	Tolerance	e(mm)	DF	Standard	Test
ΚV	DARFON P/N	DARFON P/N Z	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
25V	C0603X6S103KFTS	C0603X6S103KFT	1V , 1kHz	10	nF	±10%	0.30	± 0.03	±0.03	5%	Paper, 15Kpcs	(l)
230	C0603X6S104 FTS	C0603X6S104□ FT	1V , 1kHz	100	nF	±10%, ±20%	0.30	± 0.03	±0.03	10%	rapel, longes	(II)*
16V	C0603X6S103KETS	C0603X6S103KET	1V , 1kHz	10	nF	±10%	0.30	± 0.03	± 0.03	5%	Paper, 15Kpcs	(l)
100	C0603X6S104  ETS	C0603X6S104□ ET	1V , 1kHz	100	nF	±10%, ±20%	0.30	± 0.05	±0.05	10%	rapel, longes	(II)*
	C0603X6S473□ DTS	C0603X6S473□ DT	1V , 1kHz	47	nF	±10%, ±20%	0.30	± 0.03	± 0.03	5%		(l)
10V	C0603X6S104KDTS	C0603X6S104KDT	1V , 1kHz	100	nF	±10%	0.30	± 0.05	±0.05	10%	Paper, 15Kpcs	(II)
100	C0603X6S224□ DTS	C0603X6S224□ DT	1V , 1kHz	220	nF	±10%, ±20%	0.30	± 0.03	±0.03	10%	rapel, longes	(II)*
	C0603X6S105MDTS	C0603X6S105MDT	1V , 1kHz	1.0	uF	±20%	0.30	± 0.09	±0.09	10%		(II)*
	C0603X6S103□ CTS	C0603X6S103□ CT	1V , 1kHz	10	nF	±10%, ±20%	0.30	± 0.03	±0.03	5%	***	(l)
	C0603X6S153KCTS	C0603X6S153KCT	1V , 1kHz	15	nF	±10%	0.30	± 0.05	±0.05	10%		(II)
	C0603X6S333□ CTS	C0603X6S333□ CT	1V , 1kHz	33	nF	±10%, ±20%	0.30	± 0.05	±0.05	10%		(II)
6.3V	C0603X6S473□ CTS	C0603X6S473□ CT	1V , 1kHz	47	nF	±10%, ±20%	0.30	± 0.05	±0.05	10%	Paper, 15Kpcs	(II)
0.3 V	C0603X6S104□ CTS	C0603X6S104□ CT	1V , 1kHz	100	nF	±10%, ±20%	0.30	± 0.05	±0.05	10%	rapel, longes	(II)*
	C0603X6S224□ CTS	C0603X6S224□ CT	0.5V , 1kHz	220	nF	±10%, ±20%	0.30	± 0.03	±0.03	10%		(II)*
	C0603X6S474MCTS	C0603X6S474MCT	1V , 1kHz	470	nF	±20%	0.30	± 0.09	± 0.09	10%		(II)*
	C0603X6S105MCTS	C0603X6S105MCT	0.5V , 1kHz	1.0	uF	±20%	0.30	± 0.09	± 0.09	10%		(II)*
	C0603X6S104□ BTS	C0603X6S104□ BT	1V , 1kHz	100	nF	±10%, ±20%	0.30	± 0.05	±0.05	10%	10% Paper 15Kncs	(II)
4V	C0603X6S224□ BTS	C0603X6S224□ BT	0.5V , 1kHz	220	nF	±10%, ±20%	0.30	± 0.03	±0.03	10%		(II)
4 V	C0603X6S474MBTS	C0603X6S474MBT	1V , 1kHz	470	nF	±20%	0.30	± 0.05	±0.05	10%	rapei, ionpus	(II)*
	C0603X6S105MBTS	C0603X6S105MBT	0.5V , 1kHz	1.0	uF	±20%	0.30	± 0.09	± 0.09	10%		(II)*

#### C1005X6S Series (EIA0402)

D) /	DARFON BAN	DADEON DANO	Measuring	Capaci	tance	Available	Thick.	Tolerance	e(mm)	DF	Standard	Test
RV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
	C1005X6S104KFTS	C1005X6S104KFT	1V , 1kHz	100	nF	±10%	0.50	±0.05	±0.05	10.0%		(II)
25V	C1005X6S224KFTS	C1005X6S224KFT	1V , 1kHz	220	nF	±10%	0.50	±0.10	±0.10	10.0%	Paper, 10Kpcs	(II)
230	C1005X6S105 FTS	C1005X6S105  FT	0.5V , 1kHz	1.0	uF	±10%, ±20%	0.50	±0.10	±0.10	10.0%	rapel, lumpus	(II)*
	C1005X6S225 FTS	C1005X6S225 FT	1V , 1kHz	2.2	uF	±10%, ±20%	0.50	±0.20	±0.20	10.0%		(II)*
	C1005X6S104KETS	C1005X6S104KET	1V , 1kHz	100	nF	±10%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X6S224KETS	C1005X6S224KET	1V , 1kHz	220	nF	±10%	0.50	±0.10	±0.10	10.0%		(II)
16V	C1005X6S334KETS	C1005X6S334KET	1V , 1kHz	330	nF	±10%	0.50	±0.10	±0.10	12.5%	Paper, 10Kpcs	(II)*
100	C1005X6S474 ETS	C1005X6S474□ ET	1V , 1kHz	470	nF	±10%, ±20%	0.50	±0.10	±0.10	12.5%	rapel, lunpus	(II)*
	C1005X6S105  ETS	C1005X6S105□ ET	1V , 1kHz	1.0	uF	±10%, ±20%	0.50	±0.10	±0.10	12.5%		(II)*
	C1005X6S225 ETS	C1005X6S225  ET	1V , 1kHz	2.2	uF	±10%, ±20%	0.50	±0.20	±0.20	10.0%		(II)
	C1005X6S105 DTS	C1005X6S105 DT	1V , 1kHz	1.0	uF	±10%, ±20%	0.50	±0.05	±0.05	12.5%		(II)*
10V	C1005X6S225 DTS	C1005X6S225 DT	1V , 1kHz	2.2	uF	±10%, ±20%	0.50	±0.20	±0.20	12.5%	Paper, 10Kpcs	(II)*
	C1005X6S475MDTS	C1005X6S475MDT	1V , 1kHz	4.7	uF	±20%	0.50	±0.20	±0.20	10.0%		(II)
	C1005X6S224KCTS	C1005X6S224KCT	1V , 1kHz	220	nF	±10%	0.50	±0.10	±0.10	10.0%		(II)
	C1005X6S334KCTS	C1005X6S334KCT	1V , 1kHz	330	nF	±10%	0.50	±0.10	±0.10	12.5%		(II)*
	C1005X6S684KCTS	C1005X6S684KCT	1V , 1kHz	680	nF	±10%	0.50	±0.10	±0.10	12.5%		(II)*
6.3V	C1005X6S105  CTS	C1005X6S105□ CT	1V , 1kHz	1.0	uF	±10%, ±20%	0.50	±0.05	±0.05	12.5%	Paper, 10Kpcs	(II)*
	C1005X6S225 CTS	C1005X6S225 CT	0.5V , 1kHz	2.2	uF	±10%, ±20%	0.50	±0.15	±0.15	12.5%		(II)*
	C1005X6S475MCTS	C1005X6S475MCT	0.5V , 1kHz	4.7	uF	±20%	0.50	±0.15	±0.15	10.0%		(II)*
	C1005X6S106MCTS	C1005X6S106MCT	0.5V , 1kHz	10	uF	±20%	0.50	±0.20	±0.20	10.0%		(II)*
	C1005X6S334KBTS	C1005X6S334KBT	1V , 1kHz	330	nF	±10%	0.50	±0.10	±0.10	10.0%		(II)
	C1005X6S105  BTS	C1005X6S105  BT	1V , 1kHz	1.0	uF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(II)*
4V	C1005X6S225  BTS	C1005X6S225 BT	0.5V , 1kHz	2.2	uF	±10%, ±20%	0.50	±0.15	±0.15	12.5%	Paper, 10Kpcs	(II)*
	C1005X6S106MBTS	C1005X6S106MBT	0.5V , 1kHz	10	uF	±20%	0.50	±0.20	±0.20	10.0% 10.0% 10.0%		(II)*
	C1005X6S226MBTS	C1005X6S226MBT	0.5V , 120Hz	22	uF	±20%	0.50	±0.30	±0.30	20.0%		(II)*
2.5V	C1005X6S226MTTS	C1005X6S226MTT	0.5V , 120Hz	22	uF	±20%	0.50	±0.30	±0.30	20.0%	Paper, 10Kpcs	(II)*

 $<sup>\</sup>hfill\Box$  Tolerance Code: K=±10%, M=±20% ;Special tolerance on the request.

<sup>(</sup>II)\* High temperature load life test are applicable in rated voltage \*100%. (II)/(II)\* are applied with derating voltage.

#### • C1608X6S Series (EIA0603)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capaci	tance	Available	Thick.	Tolerance	(mm)	DF	Standard	Test
ΚV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
	C1608X6S105KFTS	C1608X6S105KFT	1V , 1kHz	1.0	uF	±10%	0.80	±0.15	±0.15	10.0%		(II)
25V	C1608X6S225KFTS	C1608X6S225KFT	1V , 1kHz	2.2	uF	±10%	0.80	±0.20	±0.20	10.0%	Paper, 4Kpcs	(II)*
	C1608X6S475 FTS	C1608X6S475 FT	1V , 1kHz	4.7	uF	±10%,±20%	0.80	±0.20	±0.20	10.0%		(II)*
	C1608X6S105KETS	C1608X6S105KET	1V , 1kHz	1.0	uF	±10%	0.80	±0.15	±0.15	10.0%		(II)
16V	C1608X6S225 ETS	C1608X6S225□ ET	1V , 1kHz	2.2	uF	±10%,±20%	0.80	±0.10	±0.10	10.0%	Paper, 4Kpcs	(II)*
100	C1608X6S475 ETS	C1608X6S475□ ET	1V , 1kHz	4.7	uF	±10%,±20%	0.80	±0.20	±0.20	10.0%	rapei, 4Npcs	(II)*
	C1608X6S106METS	C1608X6S106MET	1V , 1kHz	10	uF	±20%	0.80	±0.20	±0.20	10.0%		(II)
	C1608X6S225KDTS	C1608X6S225KDT	1V , 1kHz	2.2	uF	±10%	0.80	±0.10	±0.10	10.0%		(II)
10V	C1608X6S475 DTS	C1608X6S475 DT	1V , 1kHz	4.7	uF	±10%,±20%	0.80	±0.15	±0.15	10.0%	Paper, 4Kpcs	(II)
	C1608X6S106MDTS	C1608X6S106MDT	1V , 1kHz	10	uF	±20%	0.80	±0.20	±0.20	10.0%		(II)
	C1608X6S225□ CTS	C1608X6S225 CT	1V , 1kHz	2.2	uF	±10%,±20%	0.80	±0.10	±0.10	10.0%		(II)*
6.3V	C1608X6S475 CTS	C1608X6S475 CT	1V , 1kHz	4.7	uF	±10%,±20%	0.80	±0.10	±0.10	10.0%	Paper, 4Kpcs	(II)*
0.5 V	C1608X6S106MCTS	C1608X6S106MCT	1V , 1kHz	10	uF	±20%	0.80	±0.20	±0.20	10.0%	rapei, 4rtpcs	(II)*
	C1608X6S226MCTS	C1608X6S226MCT	0.5V , 120Hz	22	uF	±20%	0.80	±0.20	±0.20	10.0%		(II)*
	C1608X6S475 BTS	C1608X6S475□ BT	1V , 1kHz	4.7	uF	±10%,±20%	0.80	±0.10	±0.10	10.0%		(II)*
4V	C1608X6S106MBTS	C1608X6S106MBT	1V , 1kHz	10	uF	±20%	0.80	±0.20	±0.20	10.0%	Paper, 4Kpcs	(II)*
¬v	C1608X6S226MBTS	C1608X6S226MBT	0.5V , 120Hz	22	uF	±20%	0.80	±0.20	±0.20	10.0%	i apei, 4rtpcs	(II)*
	C1608X6S476MBTS	C1608X6S476MBT	0.5V , 120Hz	47	uF	±20%	0.80	±0.20	±0.20	15.0%		(II)*
2.5V	C1608X6S476MTTS	C1608X6S476MTT	0.5V , 120Hz	47	uF	±20%	0.80	±0.20	±0.20	15.0%	Paper, 4Kpcs	(II)*

#### C2012X6S Series (EIA0805)

DV	DAREON RAN	DADEON DANO	Measuring	Capaci	tance	Available	Thick.	Tolerance	(mm)	DF	Standard	Test
RV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
50V	C2012X6S104KGTS	C2012X6S104KGT	1V , 1kHz	100	nF	±10%	0.80	±0.15	±0.10	2.5%	Paper, 4Kpcs	(l)
300	C2012X6S475KGPS	C2012X6S475KGP	1V , 1kHz	4.7	uF	±10%	1.25	±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)
	C2012X6S225KFPS	C2012X6S225KFP	1V , 1kHz	2.2	uF	±10%	1.25	±0.15/±0.20	±0.20	10.0%		(II)*
25V	C2012X6S475KFPS	C2012X6S475KFP	1V , 1kHz	4.7	uF	±10%	1.25	±0.15/±0.20	±0.20	12.5%	Embossed, 3Kpcs	(II)*
	C2012X6S106□ FPS	C2012X6S106□ FP	0.5V , 1kHz	10	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	12.5%		(II)*
16V	C2012X6S106KEPS	C2012X6S106KEP	1V , 1kHz	10	uF	±10%	1.25	±0.15/±0.20	±0.20	10.0%	Embassed 2Knss	(II)
100	C2012X6S226MEPS	C2012X6S226MEP	0.5V , 120Hz	22	uF	±20%	1.25	±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)*
10V	C2012X6S106KDPS	C2012X6S106KDP	1V , 1kHz	10	uF	±10%	1.25	±0.15/±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)*
100	C2012X6S226MDPS	C2012X6S226MDP	0.5V , 120Hz	22	uF	±20%	1.25	±0.20	±0.20	10.0%	Elliposseu, arpcs	(II)
	C2012X6S106 CPS	C2012X6S106□ CP	1V , 1kHz	10	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%		(II)*
6.3V	C2012X6S226MCPS	C2012X6S226MCP	0.5V , 120Hz	22	uF	±20%	1.25	±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)*
	C2012X6S476MCPS	C2012X6S476MCP	0.5V , 120Hz	47	uF	±20%	1.25	±0.20	±0.20	10.0%		(II)*
	C2012X6S106 BPS	C2012X6S106□ BP	1V , 1kHz	10	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%		(II)
4V	C2012X6S226MBPS	C2012X6S226MBP	0.5V , 120Hz	22	uF	±20%	1.25	±0.20	±0.20	10.0%	Embassed 2Knss	(II)
40	C2012X6S476MBPS	C2012X6S476MBP	0.5V , 120Hz	47	uF	±20%	1.25	±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)*
	C2012X6S107MBPS	C2012X6S107MBP	0.5V , 120Hz	100	uF	±20%	1.25	±0.20	±0.20	10.0%		(II)*

#### • C3216X6S Series (EIA1206)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capaci	tance	Available	Thick.	Tolerance	(mm)	DF	Standard	Test
ΚV	DARFON P/N	DARFON P/N Z	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
35V	C3216X6S106KNPS	C3216X6S106KNP	1V , 1kHz	10	uF	±10%	1.60	±0.30	±0.30	10.0%	Embossed, 2Kpcs	(II)*
25V	C3216X6S106KFPS	C3216X6S106KFP	1V , 1kHz	10	uF	±10%	1.60	±0.20	±0.20	10.0%	Embossed, 2Kpcs	(II)
250	C3216X6S226 FPS	C3216X6S226□ FP	0.5V , 120Hz	22	uF	±10%, ±20%	1.60	±0.30	±0.30	10.0%	Ellibosseu, ZNpcs	(II)
16V	C3216X6S226 EPS	C3216X6S226□ EP	0.5V , 120Hz	22	uF	±10%, ±20%	1.60	±0.30	±0.30	10.0%	Embossed, 2Kpcs	(II)
10V	C3216X6S226MDPS	C3216X6S226MDP	0.5V , 120Hz	22	uF	±20%	1.60	±0.30	±0.30	10.0%	Embossed, 2Kpcs	(II)
100	C3216X6S476MDPS	C3216X6S476MDP	0.5V , 120Hz	47	uF	±20%	1.60	±0.30	±0.30	10.0%	Lilibosseu, Zixpos	(II)
6.3V	C3216X6S476MCPS	C3216X6S476MCP	0.5V , 120Hz	47	uF	±20%	1.60	±0.30	±0.30	10.0%	Embossed, 2Kpcs	(II)
	C3216X6S226MBTS	C3216X6S226MBT	0.5V , 120Hz	22	uF	±20%	0.85	±0.20	±0.10	10.0%	Paper, 4Kpcs	(II)
4V	C3216X6S476MBPS	C3216X6S476MBP	0.5V , 120Hz	47	uF	±20%	1.60	±0.30	±0.30	10.0%	Embossed, 2Kpcs	(II)
	C3216X6S107MBPS	C3216X6S107MBP	0.5V , 120Hz	100	uF	±20%	1.60	±0.20	±0.20	10.0%	Embossed, 2Kpcs	(II)

#### • C3225X6S Series (EIA1210)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capaci	tance	Available	Thick.	Tolerance	(mm)	DF	Standard	Test
KV	DARFON F/N	DARFON F/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
6.3V	C3225X6S107MCPS	C3225X6S107MCP	0.5V , 120Hz	100	uF	±20%	2.50	±0.30	±0.30	10.0%	Embossed, 1Kpcs	(II)

 $<sup>\</sup>hfill\Box$  Tolerance Code: K=±10%, M=±20% ;Special tolerance on the request.;

<sup>(</sup>II)\* High temperature load life test are applicable in rated voltage \*100%. (II)/(II)\* are applied with derating voltage.

- X6T Series
- C1005X6T Series (EIA0402)

R	v	DARFON P/N	DARFON P/N 2	Measuring	Capac	itance	Available	Thick.	Tolerance	(mm)	DF	Standard	Test
- 1	٠,	DAIN ON F/N	DAIN ON F/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
10	)V	C1005X6T475MDTS	C1005X6S475MDT	1V , 1kHz	4.7	uF	±20%	0.50	±0.20	±0.20	10.0%	Paper, 10Kpcs	(II)*
6.3	3V	C1005X6T475MCTS	C1005X6T475MCT	0.5V , 1kHz	4.7	uF	±20%	0.50	±0.15	±0.15	10.0%	Paper, 10Kpcs	(II)*

### C3216X6T Series (EIA1206)

Ī	RV	DARFON P/N	DARFON P/N 2	Measuring	Capac	itance	Available	Thick.	Tolerance	e(mm)	DF	Standard	Test
	IXV	DAIN ON F/N	DAM ON F/M 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
I	6.3V	C3216X6T107MCPS	C3216X7T107MCP	0.5V , 120Hz	100	uF	±20%	1.60	±0.30	±0.30	15.0%	Embossed, 2Kpcs	(II)*

 $<sup>\</sup>hfill\Box$  Tolerance Code: K=±10%, M=±20% ;Special tolerance on the request.;

<sup>(</sup>II)\* High temperature load life test are applicable in rated voltage \*100%. (II)/(II)\* are applied with derating voltage.

#### ■ X7R Series

### • C0603X7R Series(EIA0201)

DARFOLD   PART   DARFOLD   Tolerance   Condition   Tolerance   T			· 	Measuring	Capaci	tance	Available	Thick.	Tolerand	e(mm)	DF	Standard	Test
CRESSAMPRISTERS   CRESSAMPRISTERS   V. 1816   190     F	RV	DARFON P/N	DARFON P/N 2	_									
COMMONFRIENCES   COMMONFRIENCES   VI, NEW 200   P		C0603X7R101□ GTS	C0603X7R101□ GT					, ,					
COMMONTRIANTS   COMMONTRIANTS   TV   THE   180   PF   4554 107%   0.30   2.003   2.003   2.003   3.00%   0.00   0.00						_							
COMBINITERIZATION   COMBINITERIZATION   VI, NAME   270   pt   ±10%   0.30   ± 0.03   ± 0.03   ± 0.03   3.0%   0.0   0.0		C0603X7R151□ GTS	C0603X7R151□ GT		150	pF	±5%,±10%	0.30	± 0.03	± 0.03	3.0%		
Decision/REPTIKEST   Condition/RepTIKEST   VI, 1816   270   pF   ±10%   0.30   ±.003   ±.003   3.0%   0.03   0.0%   0.03   0.0%   0.03   0.0%   0.03   0.0%   0.03   0.0%   0.0		C0603X7R181KGTS	C0603X7R181KGT	1V , 1kHz	180	pF	±10%	0.30	± 0.03	± 0.03	3.0%		(I)
C000329F331KGTS   C009329F331KGT   IV, NeHz   330   pF   ±10%   0.30   ± 0.03   ± 0.03   ± 0.03   0.30   5.0%		C0603X7R221□ GTS	C0603X7R221□ GT	1V , 1kHz	220	pF	±5%,±10%	0.30	± 0.03	± 0.03	3.0%		(l)
COGGS/PRESINCES   COGGS/PRESINCES   TV, 145E, 390   pF   £10%   0.30 ± 0.03 ± 0.03 ± 0.03 ± 0.06 3 0.0%						pF		0.30					
CORGON/PRINCITS   CORGON/PRINCITG   TV, 114-12   470   pF   = 110%   0.30   ± 0.03   ± 0.03   ± 0.03   0.00   0.						_							
COGGOS/PRESICEST   COGGOS/PRESICEST   V,													
DOM   CORRESPONDENCY						_							
C089337FR2FKGTS	501/											Danes 45Knee	
CORRESPONDENCIAL TO SECURITIVE CONTRIBUTION OF THE SECURITIVE CORRESPONDENCIAL TO SECURITIVE CONTRIBUTION OF THE SECURITIES	500					_						Paper, Tokpos	
C069337F11224CTS													
C0603XPRIBACKTS													
C066337F1824CTS													
C060337F2224CIT   1V, 1Hz   22, n													
C060337R332KGT													
C069337R682KGTS   C069337R682KGT   V1, INF2   6.8   nf   s10%   0.30   s 0.03   s					3.3	nF	±10%	0.30		± 0.03	5.0%		
C0603X7R103KTS		C0603X7R472KGTS	C0603X7R472KGT	1V , 1kHz	4.7	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
C0003XPR101KFTS		C0603X7R682KGTS	C0603X7R682KGT	1V , 1kHz	6.8	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(II)*
C0603XPR12IKITIS   C0603XPR12IKIFT   V, INFL2   120   pF   110%   0.30   1.003   3.5%   0.03   3.5%   0.00   0.003   0.003   3.5%   0.003   0.003   0.003   3.5%   0.003   0		C0603X7R103KGTS	C0603X7R103KGT	1V , 1kHz	10	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(II)*
C0603XP161KFTS   C0603XP161KFT   V, INHZ   150   pF   ±10%   0.30 ±0.03 ±0.03 .5%   0.00													
C0603X7R181KFT   C0603X7R181KFT   V, ShRL   190   pF   ±10%   0.30 ±0.03 ±0.03 .5%   0.00						_							
C0603X7R221cFTS   C0603X7R221cFT   1V, 1kHz   220   pF													
CORGOSTREZYRETS   CORGOSTREZYRET   1V, 1kHz   220   pF   ±10%   0.30 ±0.03 ±0.03 ±0.03 ±0.03 ±0.06   0.00													
CORGOS/REGISTRETS   CORGOS/REGISTRET   1V, 1kHz  330   pF   ±10%   0.30 ±0.03 ±0.03 ±0.03 ±0.03 ±0.03   5.9%   (i)						_							
C0603X7R391KFTS						_							
CORGOX/REAI/LEF   TV , INHZ   470   DF						_							
CORGO3X/RBGRIKETS   CORGO3X/RBGRIKET   VV, INHz   RBG   DF   ±10%   0.30   ±0.03   ±0.03   3.5%   CORGO3X/RBGRIKET   VV, INHz   RBG   DF   ±10%   0.30   ±0.03   ±0.03   3.5%   (I)   CORGO3X/RBGRILET   CORGO3X/RBGRILET   VV, INHz   10   DF   ±5%±10%   0.30   ±0.03   ±0.03   3.5%   (I)   CORGO3X/RBGRILET   CORGO3X/RBGRILET   VV, INHz   1.0   DF   ±5%±10%   0.30   ±0.03   ±0.03   3.5%   (I)   CORGO3X/RBGRILET   CORGO3X/RBGRILET   VV, INHz   1.2   DF   ±10%   0.30   ±0.03   ±0.03   3.5%   (I)   CORGO3X/RBGRILEXFT   CORGO3X/RBGRITET   VV, INHz   1.8   DF   ±10%   0.30   ±0.03   ±0.03   3.5%   (I)   CORGO3X/RBGRITET   VV, INHz   1.8   DF   ±10%   0.30   ±0.03   ±0.03   3.5%   (I)   CORGO3X/RBGRITET   VV, INHz   1.8   DF   ±10%   0.30   ±0.03   ±0.03   3.5%   (I)   CORGO3X/RBGRITET   VV, INHz   1.8   DF   ±10%   0.30   ±0.03   ±0.03   3.5%   (I)   CORGO3X/RBGRITET   VV, INHz   3.3   DF   ±10%   0.30   ±0.03   ±0.03   3.5%   (I)   CORGO3X/RBGRITET   CORGO3X/RBGRIXET   VV, INHz   3.3   DF   ±10%   0.30   ±0.03   ±0.03   5.0%   (I)   CORGO3X/RBGRIXET   VV, INHz   3.3   DF   ±10%   0.30   ±0.03   ±0.03   5.0%   (I)   CORGO3X/RBGRIXET   VV, INHz   0.8   DF   ±10%   0.30   ±0.03   ±0.03   5.0%   (I)   CORGO3X/RBGRIXET   VV, INHz   0.8   DF   ±10%   0.30   ±0.03   ±0.03   5.0%   (I)   CORGO3X/RBGRIXET   VV, INHz   0.8   DF   ±10%   0.30   ±0.03   ±0.03   5.0%   (I)   CORGO3X/RBGRIXET   VV, INHz   0.8   DF   ±10%   0.30   ±0.03   ±0.03   5.0%   (I)   CORGO3X/RBGRIXET   VV, INHz   100   DF   ±10%   0.30   ±0.03   ±0.03   5.0%   (I)   CORGO3X/RBGRIXET   VV, INHz   100   DF   ±10%   0.30   ±0.03   ±0.03   5.0%   (I)   CORGO3X/RBGRIXET   VV, INHz   100   DF   ±10%   0.30   ±0.03   ±0.03   5.0%   (I)   CORGO3X/RBGRIXET   VV, INHz   100   DF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (I)   CORGO3X/RBGRIXET   VV, INHz   100   DF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (I)   CORGO3X/RBGRIXET   VV, INHz   200   DF   ±5%,±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (I)   CORGO3X/RBGRIXET   VV, INHz   200   DF   ±5%,±10%						_							
25V   C0603X/R81KFTS   C0603X/R8201FT   V. 1kHz   680   pF						_							
C0603X7R102LETS	25V					_						Paper, 15Kpcs	
C0603X7R102: FTS						_							
C0603X/R162KFTS					1.0	_		0.30		± 0.03	3.5%		
C0603X7R22EKFTS		C0603X7R122KFTS	C0603X7R122KFT	1V , 1kHz	1.2	nF	±10%	0.30	± 0.03	± 0.03	3.5%		
C0603X7R22KFTS		C0603X7R152KFTS	C0603X7R152KFT	1V , 1kHz	1.5	nF	±10%	0.30	± 0.03	± 0.03	3.5%		(l)
C0603X7R332KFTS		C0603X7R182KFTS	C0603X7R182KFT	1V , 1kHz	1.8	nF	±10%	0.30	± 0.03	± 0.03	3.5%		(l)
C0603X/R42/KFTS   C0603X/R42/KFT   1V, 1kHz   4.7 nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (i)		C0603X7R222KFTS	C0603X7R222KFT	1V , 1kHz	2.2	nF	±10%	0.30	± 0.03	± 0.03	3.5%		(l)
C0603X7R632KFTS   C0603X7R103m FT   1V, 1kHz   6.8   nF													
C0603X/R1013: FTS													
C0603X7R101KETS													
C0603X7R121KETS													
C0603X7R181KETS													
C0603X7R201\(\text{DETS}\)						_							
C0603X7R221KETS						_							
C0603X7R271KETS													
C0603X7R331\(\text{DETS} \) C0603X7R331\(\text{DETS} \) C0603X7R331\(\text{DETS} \) C0603X7R681\(\text{DETS} \) C0603X7R61\(\text{DETS} \) C0603X7R82\(\text{DETS} \) C0603X7R82\(\text{DETS} \) C0603X7R102\(\text{DETS} \) C0603X7R182\(\text{KET} \) V, 1kHz 1.5 nF \(\text{ ±5%, ±10%} \) 0.30 \(\text{ ±0.03} \) ±0.03 \(\text{ ±0.03} \) 3.5% \(\text{(I)} \) C0603X7R182\(\text{KETS} \) C0603X7R182\(\text{KET} \) V, 1kHz 1.8 nF \(\text{ ±10%} \) 0.30 \(\text{ ±0.03} \) ±0.03 \(\text{ ±0.03} \) 3.5% \(\text{(I)} \) C0603X7R22\(\text{EETS} \) C0603X7R32\(\text{ZET} \) TV, 1kHz 1.2 2 nF \(\text{ ±10%} \) 0.30 \(\text{ ±0.03} \) ±0.03 \(\text{ ±0.03} \) 5.0% \(\text{(I)} \) C0603X7R33\(\text{KETS} \) C0603X7R32\(\text{ZET} \) TV, 1kHz 2.7 nF \(\text{ ±5%, ±10%} \) 0.30 \(\text{ ±0.03} \) ±0.03 \(\text{ ±0.03} \) 5.0% \(\text{(I)} \) C0603X7R32\(\text{KETS} \) C0603X7R32\(\text{ZET} \) TV, 1kHz 2.7 nF \(\text{ ±5%, ±10%} \) 0.30 \(\text{ ±0.03} \) ±0.03 \(\text{ ±0.03} \) 5.0% \(\text{(I)} \) C0603X7R32\(\text{KETS} \) C0603X7R32\(\text{XET} \) TV, 1kHz 4.7 nF \(\text{ ±10%} \) 0.30 \(\text{ ±0.03} \) ±0.03 \(\text{ ±0.03} \) 5.0% \(\text{(I)} \) C0603X7R32\(\text{KETS} \) C0603X7R333\(\text{KET} \) TV, 1kHz 4.7 nF \(\text{ ±10%} \) 0.30 \(\text{ ±0.03} \) ±0.03 \(\text{ ±0.03} \) 5.0% \(\text{(I)} \) C0603X7R333\(\text{KETS} \) C0603X7R333\(\text{KET} \) TV, 1kHz 4.7 nF \(\text{ ±10%} \) 0.30 \(\text{ ±0.03} \) ±0.03 \(\text{ ±0.03} \) 5.0% \(\text{(I)} \) C0603X7R333\(													
C0603X7R471KETS													
C0603X7R561KETS													
C0603X7R821□ ETS   C0603X7R821□ ET   1V , 1kHz   820   pF   ±5%,±10%   0.30   ±0.03   ±0.03   3.5%   (1)		C0603X7R561KETS	C0603X7R561KET	1V , 1kHz	560	pF	±10%	0.30	± 0.03	± 0.03	3.5%		
C0603X7R102   ETS   C0603X7R102   ET   TV , 1kHz   1.0   nF   ±5%,±10%   0.30   ±0.03   ±0.03   3.5%   (I)		C0603X7R681□ ETS	C0603X7R681□ ET	1V , 1kHz	680	pF	±5%,±10%	0.30	± 0.03	± 0.03	3.5%		(l)
C0603X7R152   ETS   C0603X7R152   ET   TV , 1kHz   1.5   nF   ±5%,±10%   0.30   ±0.03   ±0.03   3.5%   C0603X7R182KETS   C0603X7R182KET   TV , 1kHz   1.8   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   3.5%   C0603X7R222KETS   C0603X7R222KET   TV , 1kHz   2.2   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   3.5%   (I)   C0603X7R322KETS   C0603X7R272   ET   TV , 1kHz   2.7   nF   ±5%,±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (I)   C0603X7R392KETS   C0603X7R392KET   TV , 1kHz   3.3   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (I)   C0603X7R472KETS   C0603X7R392KET   TV , 1kHz   4.7   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (I)   C0603X7R682KETS   C0603X7R662KET   TV , 1kHz   4.7   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (I)   C0603X7R682KETS   C0603X7R682KET   TV , 1kHz   5.6   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (I)   C0603X7R822KETS   C0603X7R822KET   TV , 1kHz   8.2   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (I)   C0603X7R233KETS   C0603X7R203KET   TV , 1kHz   8.2   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (I)   C0603X7R223KETS   C0603X7R223KET   TV , 1kHz   22   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (I)   C0603X7R333KETS   C0603X7R333KET   TV , 1kHz   47   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (I)   C0603X7R473KETS   C0603X7R473KET   TV , 1kHz   47   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (I)   C0603X7R473KETS   C0603X7R473KET   TV , 1kHz   47   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (I)   C0603X7R473KETS   C0603X7R473KET   TV , 1kHz   47   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (I)   C0603X7R473KETS   C0603X7R473KET   TV , 1kHz   47   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (I)   C0603X7R473KETS   C0603X7R473KET   TV , 1kHz   47   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (I)   C0603X7R473KETS   C0603X7R473KET   TV , 1kHz   47   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (I)   C0603X7R473KETS   C0603X7R473KET   TV , 1kHz   47   nF   ±10%   C0403X17403   ±0.03   ±0.03   ±0		C0603X7R821□ ETS	C0603X7R821□ ET	1V , 1kHz	820	pF	±5%,±10%	0.30	± 0.03	± 0.03	3.5%		(l)
16V   C0603X7R182KETS   C0603X7R182KET   1V , 1kHz   1.8   nF   ±10%   0.30   ±0.03   ±0.03   3.5%   Paper, 15Kpcs   (i)   C0603X7R222KETS   C0603X7R222KET   1V , 1kHz   2.2   nF   ±10%   0.30   ±0.03   ±0.03   3.5%   (i)   C0603X7R322KETS   C0603X7R272□ ET   1V , 1kHz   2.7   nF   ±5%,±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (i)   C0603X7R332KETS   C0603X7R392KET   1V , 1kHz   3.3   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (i)   C0603X7R472KETS   C0603X7R392KET   1V , 1kHz   3.9   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (i)   C0603X7R472KETS   C0603X7R472KET   1V , 1kHz   4.7   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (i)   C0603X7R682KETS   C0603X7R682KET   1V , 1kHz   5.6   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (i)   C0603X7R822KETS   C0603X7R862KET   1V , 1kHz   6.8   nF   ±10%   0.30   ±0.03   ±0.03   5.0%   (i)   C0603X7R203KETS   C0603X7R103□ ET   V , 1kHz   8.2   nF   ±10%   0.30   ±0.03   ±0.03   5.0%   (i)   C0603X7R223KETS   C0603X7R203KET   1V , 1kHz   10   nF   ±5%,±10%   0.30   ±0.03   ±0.03   5.0%   (i)   C0603X7R2033KETS   C0603X7R333KET   1V , 1kHz   22   nF   ±10%   0.30   ±0.03   ±0.03   5.0%   (i)   C0603X7R333KETS   C0603X7R333KET   1V , 1kHz   47   nF   ±10%   0.30   ±0.03   ±0.03   5.0%   (i)   C0603X7R473KETS   C0603X7R473KET   1V , 1kHz   47   nF   ±10%   0.30   ±0.03   ±0.03   5.0%   (i)   C0603X7R473KETS   C0603X7R473KET   1V , 1kHz   47   nF   ±10%   0.30   ±0.03   ±0.03   5.0%   (i)   C0603X7R473KETS   C0603X7R473KET   1V , 1kHz   47   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (i)   C0603X7R473KETS   C0603X7R473KET   1V , 1kHz   47   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   5.0%   (i)   C0603X7R473KETS   C0603X7R473KET   1V , 1kHz   47   nF   ±10%   0.30   ±0.03   ±0.03   ±0.03   ±0.03   5.0%   (i)   C0603X7R473KETS   C0603X7R473KET   1V , 1kHz   47   nF   ±10%   0.30   ±0.03		C0603X7R102□ ETS	C0603X7R102□ ET	1V , 1kHz	1.0	nF	±5%,±10%	0.30	± 0.03	± 0.03	3.5%		(l)
C0603X7R222KETS         C0603X7R222KET         1V, 1kHz         2.2         nF         ±10%         0.30         ±0.03         ±0.03         3.5%           C0603X7R272□ ETS         C0603X7R272□ ET         1V, 1kHz         2.7         nF         ±5%,±10%         0.30         ±0.03         ±0.03         5.0%           C0603X7R332KETS         C0603X7R332KET         1V, 1kHz         3.3         nF         ±10%         0.30         ±0.03         ±0.03         5.0%           C0603X7R392KETS         C0603X7R392KET         1V, 1kHz         3.9         nF         ±10%         0.30         ±0.03         ±0.03         5.0%           C0603X7R472KETS         C0603X7R472KET         1V, 1kHz         4.7         nF         ±10%         0.30         ±0.03         ±0.03         5.0%           C0603X7R562KETS         C0603X7R562KET         1V, 1kHz         5.6         nF         ±10%         0.30         ±0.03         ±0.03         5.0%           C0603X7R862KETS         C0603X7R682KETS         1V, 1kHz         6.8         nF         ±10%         0.30         ±0.03         ±0.03         5.0%           C0603X7R822KETS         C0603X7R103□ ET         1V, 1kHz         8.2         nF         ±10%         0.30         <				1V , 1kHz	1.5	nF	±5%,±10%	0.30	± 0.03	± 0.03	3.5%		(l)
C0603X7R272□ ETS         C0603X7R272□ ET         1V, 1kHz         2.7         nF         ±5%,±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R332KETS         C0603X7R332KET         1V, 1kHz         3.3         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R392KETS         C0603X7R392KET         1V, 1kHz         3.9         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R472KETS         C0603X7R472KET         1V, 1kHz         4.7         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R562KETS         C0603X7R562KET         1V, 1kHz         5.6         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R62KETS         C0603X7R682KET         1V, 1kHz         6.8         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R822KETS         C0603X7R822KET         1V, 1kHz         8.2         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R223KETS	16V											Paper, 15Kpcs	
C0603X7R332KETS         C0603X7R332KET         1V, 1kHz         3.3         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R392KETS         C0603X7R392KET         1V, 1kHz         3.9         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R472KETS         C0603X7R472KET         1V, 1kHz         4.7         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R562KETS         C0603X7R562KET         1V, 1kHz         5.6         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R682KETS         C0603X7R862KET         1V, 1kHz         6.8         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R822KETS         C0603X7R822KET         1V, 1kHz         8.2         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R823KETS         C0603X7R822KET         1V, 1kHz         10         nF         ±5%,±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R823KETS <td></td>													
C0603X7R392KETS         C0603X7R392KET         1V, 1kHz         3.9         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R472KETS         C0603X7R472KET         1V, 1kHz         4.7         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R562KETS         C0603X7R562KET         1V, 1kHz         5.6         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R682KETS         C0603X7R862KET         1V, 1kHz         6.8         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R822KETS         C0603X7R822KET         1V, 1kHz         8.2         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R103□ ETS         C0603X7R203KET         1V, 1kHz         10         nF         ±50,±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R223KETS         C0603X7R223KET         1V, 1kHz         22         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R233KETS </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							·						
C0603X7R472KETS         C0603X7R472KET         1V, 1kHz         4.7         nF         ±10%         0.30         ±0.03         ±0.03         5.0%         (I)           C0603X7R562KETS         C0603X7R562KET         1V, 1kHz         5.6         nF         ±10%         0.30         ±0.03         ±0.03         5.0%         (I)           C0603X7R682KETS         C0603X7R682KET         1V, 1kHz         6.8         nF         ±10%         0.30         ±0.03         ±0.03         5.0%         (I)           C0603X7R822KETS         C0603X7R822KET         1V, 1kHz         8.2         nF         ±10%         0.30         ±0.03         ±0.03         5.0%         (I)           C0603X7R103□ ETS         C0603X7R103□ ET         1V, 1kHz         10         nF         ±5%,±10%         0.30         ±0.03         ±0.03         5.0%         (I)           C0603X7R223KETS         C0603X7R223KET         1V, 1kHz         22         nF         ±10%         0.30         ±0.03         ±0.03         5.0%         (I)           C0603X7R333KETS         C0603X7R333KET         1V, 1kHz         33         nF         ±10%         0.30         ±0.03         ±0.03         5.0%         (I)           C0603X7R473KETS <t< td=""><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td>%</td><td></td></t<>						_						%	
C0603X7R562KETS         C0603X7R562KET         1V, 1kHz         5.6         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R682KETS         C0603X7R682KET         1V, 1kHz         6.8         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R822KETS         C0603X7R822KET         1V, 1kHz         8.2         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R103□ ETS         C0603X7R103□ ET         1V, 1kHz         10         nF         ±5%,±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R223KETS         C0603X7R223KET         1V, 1kHz         22         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R333KETS         C0603X7R333KET         1V, 1kHz         33         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R473KETS         C0603X7R473KET         1V, 1kHz         47         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)													
C0603X7R682KETS         C0603X7R682KET         1V, 1kHz         6.8         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R822KETS         C0603X7R822KET         1V, 1kHz         8.2         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R103□ ETS         C0603X7R103□ ET         1V, 1kHz         10         nF         ±5%,±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R223KETS         C0603X7R223KET         1V, 1kHz         22         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R333KETS         C0603X7R333KET         1V, 1kHz         33         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R473KETS         C0603X7R473KET         1V, 1kHz         47         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)						_						0%	
C0603X7R822KETS         C0603X7R822KET         1V, 1kHz         8.2         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R103□ ETS         C0603X7R103□ ET         1V, 1kHz         10         nF         ±5%,±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R223KETS         C0603X7R223KET         1V, 1kHz         22         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R333KETS         C0603X7R333KET         1V, 1kHz         33         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R473KETS         C0603X7R473KET         1V, 1kHz         47         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)													
C0603X7R103□ ETS         C0603X7R103□ ET         1V, 1kHz         10         nF         ±5%,±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R223KETS         C0603X7R223KET         1V, 1kHz         22         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R333KETS         C0603X7R333KET         1V, 1kHz         33         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R473KETS         C0603X7R473KET         1V, 1kHz         47         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)													
C0603X7R223KETS         C0603X7R223KET         1V, 1kHz         22         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R333KETS         C0603X7R333KET         1V, 1kHz         33         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)           C0603X7R473KETS         C0603X7R473KET         1V, 1kHz         47         nF         ±10%         0.30         ± 0.03         ± 0.03         5.0%         (I)													
C0603X7R333KETS C0603X7R333KET 1V , 1kHz 33 nF ±10% 0.30 ±0.03 ±0.03 5.0% (I) C0603X7R473KETS C0603X7R473KET 1V , 1kHz 47 nF ±10% 0.30 ±0.03 ±0.03 5.0% (I)						_	·						
C0603X7R473KETS													
				1V , 1kHz									(II)*



RV	DARFON P/N	DARFON P/N 2	Measuring	Capaci	tance	Available	Thick.	Toleranc	e(mm)	DF	Standard	Test
ΚV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
	C0603X7R221□ DTS	C0603X7R221□ DT	1V , 1kHz	220	pF	±5%,±10%	0.30	± 0.03	± 0.03	5.0%		(l)
	C0603X7R102KDTS	C0603X7R102KDT	1V , 1kHz	1.0	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
	C0603X7R182KDTS	C0603X7R182KDT	1V , 1kHz	1.8	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
	C0603X7R222KDTS	C0603X7R222KDT	1V , 1kHz	2.2	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
	C0603X7R272□ DTS	C0603X7R272□ DT	1V , 1kHz	2.7	nF	±5%,±10%	0.30	± 0.03	± 0.03	5.0%		(l)
	C0603X7R332KDTS	C0603X7R332KDT	1V , 1kHz	3.3	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
10V	C0603X7R392KDTS	C0603X7R392KDT	1V , 1kHz	3.9	nF	±10%	0.30	± 0.03	± 0.03	5.0%	Donor 15Knoo	(l)
100	C0603X7R472KDTS	C0603X7R472KDT	1V , 1kHz	4.7	nF	±10%	0.30	± 0.03	± 0.03	5.0%	Paper, 15Kpcs	(l)
	C0603X7R562KDTS	C0603X7R562KDT	1V , 1kHz	5.6	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
	C0603X7R682KDTS	C0603X7R682KDT	1V , 1kHz	6.8	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
	C0603X7R822KDTS	C0603X7R822KDT	1V , 1kHz	8.2	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
	C0603X7R103□ DTS	C0603X7R103□ DT	1V , 1kHz	10	nF	±5%,±10%	0.30	± 0.03	± 0.03	5.0%		(l)
	C0603X7R473KDTS	C0603X7R473KDT	1V , 1kHz	47	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
	C0603X7R104□ DTS	C0603X7R104□ DT	1V , 1kHz	100	nF	±10%, ±20%	0.30	± 0.05	± 0.05	10%		(II)
	C0603X7R222KCTS	C0603X7R222KCT	1V , 1kHz	2.2	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
	C0603X7R332KCTS	C0603X7R332KCT	1V , 1kHz	3.3	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
	C0603X7R103KCTS	C0603X7R103KCT	1V , 1kHz	10	nF	±10%	0.30	± 0.03	± 0.03	5.0%		(l)
6.3V	C0603X7R153KCTS	C0603X7R153KCT	1V , 1kHz	15	nF	±10%	0.30	± 0.05	± 0.05	10%	Paper, 15Kpcs	(II)
	C0603X7R333KCTS	C0603X7R333KCT	1V , 1kHz	33	nF	±10%	0.30	± 0.05	± 0.05	10%		(II)
	C0603X7R104KCTS	C0603X7R104KCT	1V , 1kHz	100	nF	±10%	0.30	± 0.05	± 0.05	10%		(II)
	C0603X7R224KCTS	C0603X7R224KCT	1V , 1kHz	220	nF	±10%	0.30	± 0.05	± 0.05	12.5%		(II)*

 $<sup>\</sup>hfill\Box$  Tolerance Code: K=±10%, M=±20% ;Special tolerance on the request.

<sup>(</sup>II)\* High temperature load life test are applicable in rated voltage \*100%. (II)/(II)\* are applied with derating voltage.

### • C1005X7R Series (EIA0402)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capaci	tance	Available	Thick.	Toleranc	e(mm)	DF	Standard	Test
ΚV			Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
	C1005X7R101 GTS	C1005X7R101 GT	1V , 1kHz	100	pF	±5%,±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R121KGTS	C1005X7R121KGT	1V , 1kHz	120 150	pF pF	±10% ±10%	0.50 0.50	±0.05	±0.05 ±0.05	3.0%		(l)
	C1005X7R151KGTS C1005X7R181KGTS	C1005X7R151KGT C1005X7R181KGT	1V , 1kHz 1V , 1kHz	180	pF	±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R201KGTS	C1005X7R201KGT	1V , 1kHz	200	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R221KGTS	C1005X7R221KGT	1V , 1kHz	220	pF	±10%	0.50	±0.05	±0.05	3.0%		(1)
	C1005X7R271□ GTS	C1005X7R271□ GT	1V , 1kHz	270	pF	±5%,±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R301KGTS	C1005X7R301KGT	1V , 1kHz	300	pF	±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R331 GTS C1005X7R391 GTS	C1005X7R331 GT C1005X7R391 GT	1V , 1kHz 1V , 1kHz	330 390	pF pF	±5%,±10% ±5%,±10%	0.50 0.50	±0.05	±0.05 ±0.05	3.0%		(l)
	C1005X7R391 GTS	C1005X7R3911 GT	1V , 1kHz	470	pF	±5%,±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R561KGTS	C1005X7R561KGT	1V , 1kHz	560	pF	±10%	0.50	±0.05	±0.05	3.0%		(1)
	C1005X7R681 GTS	C1005X7R681□ GT	1V , 1kHz	680	pF	±5%,±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R751KGTS	C1005X7R751KGT	1V , 1kHz	750	pF	±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R821KGTS	C1005X7R821KGT	1V , 1kHz	820	pF	±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R102 GTS C1005X7R122 GTS	C1005X7R102 GT C1005X7R122 GT	1V , 1kHz 1V , 1kHz	1.0	nF nF	±5%,±10%, ±20% ±5%,±10%	0.50 0.50	±0.05	±0.05 ±0.05	3.0%		(l)
	C1005X7R152KGTS	C1005X7R152KGT	1V , 1kHz	1.5	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
50V	C1005X7R182KGTS	C1005X7R182KGT	1V , 1kHz	1.8	nF	±10%	0.50	±0.05	±0.05	3.0%	Paper, 10Kpcs	(1)
	C1005X7R222 GTS	C1005X7R222□ GT	1V , 1kHz	2.2	nF	±5%,±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R272□ GTS	C1005X7R272□ GT	1V , 1kHz	2.7	nF	±5%,±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R332 GTS	C1005X7R332 GT	1V , 1kHz	3.3	nF	±5%,±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R392KGTS C1005X7R472 GTS	C1005X7R392KGT C1005X7R472 GT	1V , 1kHz 1V , 1kHz	3.9 4.7	nF nF	±10% ±5%,±10%	0.50 0.50	±0.05	±0.05 ±0.05	3.0%		(l)
	C1005X7R472 GTS	C1005X7R472 GT	1V , 1kHz	5.6	nF	±5%,±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R682 GTS	C1005X7R682 GT	1V , 1kHz	6.8	nF	±5%,±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R822KGTS	C1005X7R822KGT	1V , 1kHz	8.2	nF	±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R103□ GTS	C1005X7R103□ GT	1V , 1kHz	10	nF	±5%,±10%, ±20%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R123KGTS	C1005X7R123KGT	1V , 1kHz	12	nF	±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R153KGTS	C1005X7R153KGT	1V , 1kHz	15	nF	±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R183KGTS C1005X7R223 GTS	C1005X7R183KGT C1005X7R223 GT	1V , 1kHz 1V , 1kHz	18 22	nF nF	±10% ±5%,±10%	0.50 0.50	±0.05	±0.05 ±0.05	3.0%		(l)
	C1005X7R333KGTS	C1005X7R333KGT	1V , 1kHz	33	nF	±10%	0.50	±0.05	±0.05	3.5%		(1)
	C1005X7R393KGTS	C1005X7R393KGT	1V , 1kHz	39	nF	±10%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X7R473KGTS	C1005X7R473KGT	1V , 1kHz	47	nF	±10%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X7R683KGTS	C1005X7R683KGT	1V , 1kHz	68	nF	±10%	0.50	±0.10	±0.10	10.0%		(II)
25\/	C1005X7R104 GTS	C1005X7R104 GT	1V , 1kHz	100	nF	±10%, ±20%	0.50	±0.10	±0.10	10.0%	Danar 10Knaa	(II)
35V	C1005X7R473KNTS C1005X7R101KFTS	C1005X7R473KNT C1005X7R101KFT	1V , 1kHz 1V , 1kHz	47 100	nF pF	±10% ±10%	0.50 0.50	±0.05	±0.05 ±0.05	10.0%	Paper, 10Kpcs	(II) (I)
	C1005X7R121KFTS	C1005X7R121KFT	1V , 1kHz	120	рF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R151KFTS	C1005X7R151KFT	1V , 1kHz	150	pF	±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R181KFTS	C1005X7R181KFT	1V , 1kHz	180	рF	±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R221KFTS	C1005X7R221KFT	1V , 1kHz	220	pF	±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R271KFTS	C1005X7R271KFT	1V , 1kHz	270	pF	±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R331KFTS C1005X7R391KFTS	C1005X7R331KFT C1005X7R391KFT	1V , 1kHz 1V , 1kHz	330 390	pF pF	±10% ±10%	0.50 0.50	±0.05	±0.05 ±0.05	3.0%		(l)
	C1005X7R471KFTS	C1005X7R471KFT	1V , 1kHz	470	рF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R561KFTS	C1005X7R561KFT	1V , 1kHz	560	pF	±10%	0.50	±0.05	±0.05	3.0%		(1)
	C1005X7R681KFTS	C1005X7R681KFT	1V , 1kHz	680	pF	±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R821KFTS	C1005X7R821KFT	1V , 1kHz	820	pF	±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R102 FTS	C1005X7R102 FT	1V , 1kHz	1.0	nF	±5%,±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R122KFTS C1005X7R152KFTS	C1005X7R122KFT	1V , 1kHz	1.2	nF	±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R152KF1S C1005X7R182KFTS	C1005X7R152KFT C1005X7R182KFT	1V , 1kHz 1V , 1kHz	1.5 1.8	nF nF	±10% ±10%	0.50 0.50	±0.05	±0.05 ±0.05	3.0%		(l)
	C1005X7R102KFTS	C1005X7R222KFT	1V , 1kHz	2.2	nF	±10%	0.50	±0.05	±0.05	3.0%		(1)
	C1005X7R272KFTS	C1005X7R272KFT	1V , 1kHz	2.7	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
25V	C1005X7R332□ FTS	C1005X7R332□ FT	1V , 1kHz	3.3	nF	±5%,±10%	0.50	±0.05	±0.05	3.0%	Paper, 10Kpcs	(l)
	C1005X7R392KFTS	C1005X7R392KFT	1V , 1kHz	3.9	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R472 FTS	C1005X7R472 FT	1V , 1kHz	4.7	nF	±5%,±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R562KFTS	C1005X7R562KFT	1V , 1kHz	5.6	nF	±10%	0.50	±0.05	±0.05	3.0%		(1)
	C1005X7R682KFTS C1005X7R822KFTS	C1005X7R682KFT C1005X7R822KFT	1V , 1kHz 1V , 1kHz	6.8 8.2	nF nF	±10% ±10%	0.50 0.50	±0.05	±0.05 ±0.05	3.0%		(l) (l)
	C1005X7R103□ FTS	C1005X7R103 FT	1V , 1kHz	10	nF	±5%,±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R123KFTS	C1005X7R123KFT	1V , 1kHz	12	nF	±10%	0.50	±0.05	±0.05	3.0%		(1)
	C1005X7R153□ FTS	C1005X7R153□ FT	1V , 1kHz	15	nF	±5%,±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R183KFTS	C1005X7R183KFT	1V , 1kHz	18	nF	±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R223□ FTS	C1005X7R223 FT	1V , 1kHz	22	nF	±5%,±10%	0.50	±0.05	±0.05	3.0%		(l)
	C1005X7R273 FTS C1005X7R333KFTS	C1005X7R273 FT C1005X7R333KFT	1V , 1kHz 1V , 1kHz	27 33	nF nF	±10%, ±20% ±10%	0.50 0.50	±0.05 ±0.05	±0.05 ±0.05	3.5%		(1)
	C1005X7R333KFTS C1005X7R393KFTS	C1005X7R333KF1	1V , 1kHz	39	nF	±10%	0.50	±0.05	±0.05	3.5%		(l)
	C1005X7R473 FTS	C1005X7R473 FT	1V , 1kHz	47	nF	±5%,±10%	0.50	±0.05	±0.05	3.5%		(I)
	C1005X7R563KFTS	C1005X7R563KFT	1V , 1kHz	56	nF	±10%	0.50	±0.05	±0.05	3.5%		(1)
	C1005X7R683KFTS	C1005X7R683KFT	1V , 1kHz	68	nF	±10%	0.50	±0.05	±0.05	3.5%		(1)
	C1005X7R104  FTS	C1005X7R104 FT	1V , 1kHz	100	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X7R224KFTS	C1005X7R224KFT	1V , 1kHz	220	nF	±10%	0.50	±0.10	±0.10	10.0%		(II)

-14			Measuring	Capaci	tance	Available	Thick.	Tolerand	e(mm)	DF	Standard	Test
RV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
	C1005X7R101KETS	C1005X7R101KET	1V , 1kHz	100	pF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R121KETS	C1005X7R121KET	1V , 1kHz	120	pF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R151KETS	C1005X7R151KET	1V , 1kHz	150	pF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R181KETS	C1005X7R181KET	1V , 1kHz	180	pF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R221 ETS C1005X7R271KETS	C1005X7R221 ET C1005X7R271KET	1V , 1kHz 1V , 1kHz	220 270	pF pF	±5%,±10% ±10%	0.50 0.50	±0.05 ±0.05	±0.05 ±0.05	5.0% 5.0%		(l)
	C1005X7R271RE13	C1005X7R271KET	1V , 1kHz	330	pF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R391KETS	C1005X7R391KET	1V , 1kHz	390	рF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R471KETS	C1005X7R471KET	1V , 1kHz	470	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R561KETS	C1005X7R561KET	1V , 1kHz	560	pF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R681KETS	C1005X7R681KET	1V , 1kHz	680	pF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R821KETS	C1005X7R821KET	1V , 1kHz	820	pF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R102 ETS	C1005X7R102 ET	1V , 1kHz	1.0	nF	±5%,±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R122KETS C1005X7R152 ETS	C1005X7R122KET	1V , 1kHz	1.2	nF	±10%	0.50	±0.05 ±0.05	±0.05 ±0.05	5.0%		(l)
	C1005X7R152 E13	C1005X7R152 ET C1005X7R182KET	1V , 1kHz 1V , 1kHz	1.5 1.8	nF nF	±5%,±10% ±10%	0.50 0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R222□ ETS	C1005X7R222 ET	1V , 1kHz	2.2	nF	±5%,±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R272KETS	C1005X7R272KET	1V , 1kHz	2.7	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R332KETS	C1005X7R332KET	1V , 1kHz	3.3	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R392KETS	C1005X7R392KET	1V , 1kHz	3.9	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
16V	C1005X7R472KETS	C1005X7R472KET	1V , 1kHz	4.7	nF	±10%	0.50	±0.05	±0.05	5.0%	Paper, 10Kpcs	(l)
100	C1005X7R562KETS	C1005X7R562KET	1V , 1kHz	5.6	nF	±10%	0.50	±0.05	±0.05	5.0%	гарсі, тогерез	(l)
	C1005X7R682KETS	C1005X7R682KET	1V , 1kHz	6.8	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R822KETS C1005X7R103 ETS	C1005X7R822KET C1005X7R103 ET	1V , 1kHz 1V , 1kHz	8.2	nF nF	±10% ±5%, ±10%,±20%	0.50 0.50	±0.05	±0.05 ±0.05	5.0% 5.0%		(l)
	C1005X7R103 E13	C1005X7R103D E1	1V , 1kHz	12	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R153KETS	C1005X7R153KET	1V , 1kHz	15	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R183KETS	C1005X7R183KET	1V , 1kHz	18	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R223KETS	C1005X7R223KET	1V , 1kHz	22	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R273KETS	C1005X7R273KET	1V , 1kHz	27	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R333□ ETS	C1005X7R333□ ET	1V , 1kHz	33	nF	±5%,±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R393KETS	C1005X7R393KET	1V , 1kHz	39	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R473 ETS	C1005X7R473 ET	1V , 1kHz	47	nF	±10%,±20%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R563KETS	C1005X7R563KET	1V , 1kHz	56	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R683KETS C1005X7R823KETS	C1005X7R683KET C1005X7R823KET	1V , 1kHz 1V , 1kHz	68 82	nF nF	±10% ±10%	0.50 0.50	±0.05	±0.05 ±0.05	5.0% 5.0%		(l)
	C1005X7R104 ETS	C1005X7R104□ ET	1V , 1kHz	100	nF	±5%, ±10%,±20%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R154KETS	C1005X7R154KET	1V , 1kHz	150	nF	±10%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X7R224 ETS	C1005X7R224□ ET	1V , 1kHz	220	nF	±10%,±20%	0.50	±0.10	±0.10	10.0%		(II)
	C1005X7R334KETS	C1005X7R334KET	1V , 1kHz	330	nF	±10%	0.50	±0.10	±0.10	12.5%		(II)*
	C1005X7R474KETS	C1005X7R474KET	1V , 1kHz	470	nF	±10%	0.50	±0.10	±0.10	12.5%		(II)*
	C1005X7R105KETS	C1005X7R105KET	1V , 1kHz	1.0	uF	±10%	0.50	±0.10	±0.10	12.5%		(II)*
	C1005X7R101KDTS	C1005X7R101KDT	1V , 1kHz	100	pF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R121KDTS C1005X7R151KDTS	C1005X7R121KDT C1005X7R151KDT	1V , 1kHz 1V , 1kHz	120 150	pF	±10% ±10%	0.50 0.50	±0.05	±0.05 ±0.05	5.0% 5.0%		(l)
	C1005X7R181KDTS	C1005X7R181KDT	1V , 1kHz	180	pF pF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R101KDTS	C1005X7R221KDT	1V , 1kHz	220	рF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R271KDTS	C1005X7R271KDT	1V , 1kHz	270	pF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R331KDTS	C1005X7R331KDT	1V , 1kHz	330	pF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R391KDTS	C1005X7R391KDT	1V , 1kHz	390	рF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R471KDTS	C1005X7R471KDT	1V , 1kHz	470	рF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R561KDTS	C1005X7R561KDT	1V , 1kHz	560	pF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R681KDTS	C1005X7R681KDT	1V , 1kHz	680	pF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R821KDTS C1005X7R102KDTS	C1005X7R821KDT C1005X7R102KDT	1V , 1kHz 1V , 1kHz	820 1.0	pF nF	±10% ±10%	0.50 0.50	±0.05	±0.05 ±0.05	5.0% 5.0%		(l)
	C1005X7R102RDTS	C1005X7R102RDT	1V , 1kHz	1.0	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R152KDTS	C1005X7R152KDT	1V , 1kHz	1.5	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R182KDTS	C1005X7R182KDT	1V , 1kHz	1.8	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
10V	C1005X7R222KDTS	C1005X7R222KDT	1V , 1kHz	2.2	nF	±10%	0.50	±0.05	±0.05	5.0%	Paper, 10Kpcs	(l)
	C1005X7R272KDTS	C1005X7R272KDT	1V , 1kHz	2.7	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R332KDTS	C1005X7R332KDT	1V , 1kHz	3.3	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R392KDTS	C1005X7R392KDT	1V , 1kHz	3.9	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R472KDTS	C1005X7R472KDT	1V , 1kHz	4.7	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R562KDTS C1005X7R682KDTS	C1005X7R562KDT C1005X7R682KDT	1V , 1kHz 1V , 1kHz	5.6 6.8	nF nF	±10% ±10%	0.50 0.50	±0.05	±0.05 ±0.05	5.0% 5.0%		(1)
	C1005X7R8822KDTS	C1005X7R8822KDT	1V , 1kHz	8.2	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R103KDTS	C1005X7R103KDT	1V , 1kHz	10	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R123KDTS	C1005X7R123KDT	1V , 1kHz	12	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R153KDTS	C1005X7R153KDT	1V , 1kHz	15	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R183KDTS	C1005X7R183KDT	1V , 1kHz	18	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R223KDTS	C1005X7R223KDT	1V , 1kHz	22	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R273KDTS	C1005X7R273KDT	1V , 1kHz	27	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R333KDTS	C1005X7R333KDT	1V , 1kHz	33	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R393KDTS C1005X7R473KDTS	C1005X7R393KDT C1005X7R473KDT	1V , 1kHz	39 47	nF nE	±10% ±10%	0.50	±0.05	±0.05 ±0.05	5.0%		(l)
$\Box$	C1005//R4/3ND15	C1003A/R4/3RDI	1V , 1kHz	4/	nF	<b>I</b> 1U70	0.50	±0.05	±∪.∪5	5.0%		(l)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capaci	tance	Available	Thick.	Toleranc	e(mm)	DF	Standard	Test
ΚV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
	C1005X7R563KDTS	C1005X7R563KDT	1V , 1kHz	56	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R683KDTS	C1005X7R683KDT	1V , 1kHz	68	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R823KDTS	C1005X7R823KDT	1V , 1kHz	82	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R104□ DTS	C1005X7R104□ DT	1V , 1kHz	100	nF	±5%,±10%	0.50	±0.05	±0.05	5.0%		(l)
10V	C1005X7R224KDTS	C1005X7R224KDT	1V , 1kHz	220	nF	±10%	0.50	±0.10	±0.10	10.0%	Paper, 10Kpcs	(II)
	C1005X7R334KDTS	C1005X7R334KDT	1V , 1kHz	330	nF	±10%	0.50	±0.10	±0.10	10.0%		(II)
	C1005X7R474KDTS	C1005X7R474KDT	1V , 1kHz	470	nF	±10%	0.50	±0.10	±0.10	10.0%		(II)
	C1005X7R684KDTS	C1005X7R684KDT	1V , 1kHz	680	nF	±10%	0.50	±0.10	±0.10	10.0%		(II)*
	C1005X7R105KDTS	C1005X7R105KDT	1V , 1kHz	1.0	uF	±10%	0.50	±0.10	±0.10	10.0%		(II)*
	C1005X7R103KCTS	C1005X7R103KCT	1V , 1kHz	10	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R223KCTS	C1005X7R223KCT	1V , 1kHz	22	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R473KCTS	C1005X7R473KCT	1V , 1kHz	47	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
	C1005X7R683KCTS	C1005X7R683KCT	1V , 1kHz	68	nF	±10%	0.50	±0.05	±0.05	5.0%		(l)
6.3V	C1005X7R104 CTS	C1005X7R104□ CT	1V , 1kHz	100	nF	±5%,±10%	0.50	±0.05	±0.05	5.0%	Paper, 10Kpcs	(l)
	C1005X7R224KCTS	C1005X7R224KCT	1V , 1kHz	220	nF	±10%	0.50	±0.10	±0.10	10.0%		(II)
	C1005X7R334KCTS	C1005X7R334KCT	1V , 1kHz	330	nF	±10%	0.50	±0.10	±0.10	10.0%		(II)
	C1005X7R474 CTS	C1005X7R474□ CT	1V , 1kHz	470	nF	±10%, ±20%	0.50	±0.10	±0.10	10.0%		(II)
	C1005X7R105□ CTS	C1005X7R105□ CT	1V , 1kHz	1.0	uF	±10%, ±20%	0.50	±0.05	±0.05	12.5%		(II)*

 $<sup>\</sup>hfill\Box$  Tolerance Code: J=±5%, K=±10%, M=±20%; Special tolerance on the request.

<sup>(</sup>II)\* High temperature load life test are applicable in rated voltage \*100%. (II)/(II)\* are applied with derating voltage.

### • C1608X7R Series (EIA0603)

C1608X7R11KGTS   C1608X7R131KGT   1V, 1kHz   150   pF   ±10%   0.80   ±0.10   ±0.10   2.5%	ard Test
C1608X7R121KGTS	ing Spec.
C1608X7R151KGTS	(I)
C1608X7R181KGTS	(I)
C1608X7R221KGTS	(I)
C1608X7R271KGTS	(I)
C1608X7R331KGTS	(I)
C1608X7R391KGTS	(I)
C1608X7R471□ GTS	(I)
C1608X7R561KGTS	(I)
C1608X7R681KGTS         C1608X7R681KGT         1V,1kHz         680         pF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R821KGTS         C1608X7R821KGT         1V,1kHz         820         pF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R120ca GTS         C1608X7R120ca GT         1V,1kHz         1.0         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R152ca GTS         C1608X7R152ca GT         1V,1kHz         1.2         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R152ca GTS         C1608X7R152ca GT         1V,1kHz         1.5         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R152cb GTS         C1608X7R122kGT         1V,1kHz         1.8         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R202kGTS         C1608X7R222kGT         1V,1kHz         2.0         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R222kGTS         C1608X7R332ca GT         1V,1kHz         2.7         nF         ±10%         0.80 <td>(l)</td>	(l)
C1608X7R821KGTS         C1608X7R821KGT         1V, 1kHz         820         pF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R102□ GTS         C1608X7R102□ GT         1V, 1kHz         1.0         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R122□ GTS         C1608X7R152□ GT         1V, 1kHz         1.2         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R12C□ GTS         C1608X7R182KGT         1V, 1kHz         1.5         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R182KGTS         C1608X7R182KGT         1V, 1kHz         1.8         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R22ZKGTS         C1608X7R22ZKGT         1V, 1kHz         2.2         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R22ZKGTS         C1608X7R2ZZKGT         1V, 1kHz         2.7         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R332□ GTS         C1608X7R332□ GT         1V, 1kHz         3.3         nF         ±5%,±10%         0.80	(l)
C1608X7R102□ GTS	(1)
C1608X7R122□ GTS         C1608X7R122□ GT         1V, 1kHz         1.2         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R152□ GTS         C1608X7R152□ GT         1V, 1kHz         1.5         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R182KGTS         C1608X7R182KGT         1V, 1kHz         1.8         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R222KGTS         C1608X7R222KGT         1V, 1kHz         2.0         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R222KGTS         C1608X7R222KGT         1V, 1kHz         2.2         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R222KGTS         C1608X7R222KGT         1V, 1kHz         2.7         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R392KGTS         C1608X7R392KGT         1V, 1kHz         3.3         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R392KGTS         C1608X7R472□ GT         1V, 1kHz         4.7         nF         ±10%         0.80	(l)
C1608X7R152□ GTS   C1608X7R152□ GT   1V , 1kHz   1.5   nF	(1)
C1608X7R182KGTS C1608X7R182KGT 1V, 1kHz 1.8 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R202KGTS C1608X7R202KGT 1V, 1kHz 2.0 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R222KGT 1V, 1kHz 2.2 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R332□ GT C1608X7R332□ GT 1V, 1kHz 3.3 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R332□ GT C1608X7R332□ GT 1V, 1kHz 3.3 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R392KGT 1V, 1kHz 3.9 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R472□ GT 1V, 1kHz 4.7 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R562KGT C1608X7R562KGT 1V, 1kHz 5.6 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R562KGT C1608X7R682□ GT 1V, 1kHz 5.6 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R682□ GT C1608X7R682□ GT 1V, 1kHz 6.8 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R303□ GT C1608X7R802KGT 1V, 1kHz 8.2 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R103□ GTS C1608X7R30□ GT 1V, 1kHz 10 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R103□ GTS C1608X7R103□ GT 1V, 1kHz 12 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R13□ GTS C1608X7R13□ GT 1V, 1kHz 12 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R13□ GTS C1608X7R13□ GT 1V, 1kHz 12 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R13□ GTS C1608X7R13□ GT 1V, 1kHz 12 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R13□ GTS C1608X7R13□ GT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R13□ GTS C1608X7R13□ GT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R13□ GTS C1608X7R13□ GT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R13□ GTS C1608X7R13□ GT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R13□ GTS C1608X7R13□ GT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R13□ GTS C1608X7R13□ GT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R13□ GTS C1608X7R13□ GT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R13□ GTS C1608X7R13□ GT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R13□ GTS C1608X7R13□ GT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R13□ GTS C1608X7R13□ GT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R13□ GTS C1608X7R13□ GT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R13□ GTS C1608X7R13□ GT 1V, 1kHz 22 nF ±10	(1)
C1608X7R202KGTS C1608X7R202KGT 1V, 1kHz 2.0 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R222KGTS C1608X7R222KGT 1V, 1kHz 2.2 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R332□ GTS C1608X7R332□ GT 1V, 1kHz 3.3 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R392KGTS C1608X7R392KGT 1V, 1kHz 3.9 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R472□ GTS C1608X7R472□ GT 1V, 1kHz 4.7 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R562KGT C1608X7R562KGT 1V, 1kHz 5.6 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R682□ GT 1V, 1kHz 5.6 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R682□ GT 1V, 1kHz 6.8 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R6472□ GTS C1608X7R802□ GT 1V, 1kHz 6.8 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R392KGTS C1608X7R802□ GT 1V, 1kHz 8.2 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R303□ GTS C1608X7R30□ GT 1V, 1kHz 10 nF ±5%,±10%,±20% 0.80 ±0.10 ±0.10 2.5% C1608X7R103□ GTS C1608X7R103□ GT 1V, 1kHz 12 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R153KGTS C1608X7R153KGT 1V, 1kHz 12 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V, 1kHz 15 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R223KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R223KGTS C1608X7R223KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R223KGTS C1608X7R223KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R223KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R223KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R223KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R223KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R223KGT 1V, 1kH	(1)
C1608X7R222KGTS   C1608X7R222KGT   1V , 1kHz   2.2   nF	(1)
C1608X7R272KGTS         C1608X7R272KGT         1V, 1kHz         2.7         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R332□ GTS         C1608X7R332□ GT         1V, 1kHz         3.3         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R392KGTS         C1608X7R392KGT         1V, 1kHz         3.9         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R472□ GTS         C1608X7R472□ GT         1V, 1kHz         4.7         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R562KGTS         C1608X7R662□ GT         1V, 1kHz         5.6         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R682□ GTS         C1608X7R682□ GT         1V, 1kHz         6.8         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R682□ GTS         C1608X7R82KGT         1V, 1kHz         8.2         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R103□ GTS         C1608X7R103□ GT         1V, 1kHz         10         nF         ±5%,±10%,±20% <t< td=""><td>(1)</td></t<>	(1)
C1608X7R332□ GTS C1608X7R332□ GT 1V , 1kHz 3.3 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R392KGT 1V , 1kHz 3.9 nF ±10% 0.80 ±0.10 ±0.10 2.5% D1608X7R472□ GTS C1608X7R472□ GT 1V , 1kHz 4.7 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R652KGT C1608X7R562KGT 1V , 1kHz 5.6 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R682□ GT 1V , 1kHz 5.6 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R682□ GT 1V , 1kHz 6.8 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R682□ GT 1V , 1kHz 8.2 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R103□ GTS C1608X7R103□ GT 1V , 1kHz 8.2 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R123KGTS C1608X7R103□ GT 1V , 1kHz 10 nF ±5%,±10%,±20% 0.80 ±0.10 ±0.10 2.5% C1608X7R153KGTS C1608X7R123KGT 1V , 1kHz 12 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R153KGTS C1608X7R153KGT 1V , 1kHz 15 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V , 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V , 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V , 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V , 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V , 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V , 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V , 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V , 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V , 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V , 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V , 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V , 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V , 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V , 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V , 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V , 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R1	(1)
C1608X7R392KGTS C1608X7R392KGT 1V, 1kHz 3.9 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R472□ GTS C1608X7R472□ GT 1V, 1kHz 4.7 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R562KGTS C1608X7R562KGT 1V, 1kHz 5.6 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R562KGT C1608X7R562KGT 1V, 1kHz 6.8 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R822KGT C1608X7R822KGT 1V, 1kHz 8.2 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R103□ GTS C1608X7R103□ GT 1V, 1kHz 10 nF ±5%,±10%,±20% 0.80 ±0.10 ±0.10 2.5% C1608X7R123KGTS C1608X7R123KGT 1V, 1kHz 12 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R153KGTS C1608X7R153KGT 1V, 1kHz 12 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R13□ GTS C1608X7R153KGT 1V, 1kHz 15 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R13□ GTS C1608X7R183□ GT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R183□ GTS C1608X7R183□ GT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R223KGTS C1608X7R23KGT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R23KGTS C1608X7R23KGT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R23KGTS C1608X7R23KGT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R23KGTS C1608X7R23KGT 1V, 1kHz 18 nF ±5%,±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R23KGTS C1608X7R23KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R23KGTS C1608X7R23KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R23KGTS C1608X7R23KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R23KGTS C1608X7R23KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R23KGTS C1608X7R23KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R23KGTS C1608X7R23KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R23KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R23KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R23KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R23KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R23KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R23KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R23KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608X7R23KGT 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5% C1608XGT 10X 1KHZ 10X 10X 10X 10	(1)
50V         C1608X7R472□ GTS         C1608X7R472□ GT         1V, 1kHz         4.7         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%         Paper,           C1608X7R562KGTS         C1608X7R562KGT         1V, 1kHz         5.6         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R682□ GTS         C1608X7R682□ GT         1V, 1kHz         6.8         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R822KGTS         C1608X7R822KGT         1V, 1kHz         8.2         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R103□ GTS         C1608X7R103□ GT         1V, 1kHz         10         nF         ±5%,±10%,±20%         0.80         ±0.10         ±0.10         2.5%           C1608X7R123KGTS         C1608X7R123KGT         1V, 1kHz         12         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R153KGTS         C1608X7R153KGT         1V, 1kHz         15         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R13□ GTS         C1608X7R183□ GT         1V, 1kHz         18         nF </td <td>(1)</td>	(1)
C1608X7R562KGTS         C1608X7R562KGT         1V, 1kHz         5.6         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R682□ GTS         C1608X7R682□ GT         1V, 1kHz         6.8         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R822KGTS         C1608X7R822KGT         1V, 1kHz         8.2         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R103□ GTS         C1608X7R103□ GT         1V, 1kHz         10         nF         ±5%,±10%,±20%         0.80         ±0.10         ±0.10         2.5%           C1608X7R123KGTS         C1608X7R123KGT         1V, 1kHz         12         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R153KGTS         C1608X7R153KGT         1V, 1kHz         15         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R183□ GTS         C1608X7R183□ GT         1V, 1kHz         18         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R223KGTS         C1608X7R223KGT         1V, 1kHz         22         nF         ±10%         0.80	(1)
C1608X7R682□ GTS         C1608X7R682□ GT         1V, 1kHz         6.8         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R822KGTS         C1608X7R822KGT         1V, 1kHz         8.2         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R103□ GTS         C1608X7R103□ GT         1V, 1kHz         10         nF         ±5%,±10%,±20%         0.80         ±0.10         ±0.10         2.5%           C1608X7R123KGTS         C1608X7R123KGT         1V, 1kHz         12         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R153KGTS         C1608X7R153KGT         1V, 1kHz         15         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R183□ GTS         C1608X7R183□ GT         1V, 1kHz         18         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R223KGTS         C1608X7R223KGT         1V, 1kHz         22         nF         ±10%         0.80         ±0.10         ±0.10         2.5%	
C1608X7R822KGTS         C1608X7R822KGT         1V, 1kHz         8.2         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R103□ GTS         C1608X7R103□ GT         1V, 1kHz         10         nF         ±5%,±10%,±20%         0.80         ±0.10         ±0.10         2.5%           C1608X7R123KGTS         C1608X7R123KGT         1V, 1kHz         12         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R153KGTS         C1608X7R153KGT         1V, 1kHz         15         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R183□ GTS         C1608X7R183□ GT         1V, 1kHz         18         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R223KGTS         C1608X7R223KGT         1V, 1kHz         22         nF         ±10%         0.80         ±0.10         ±0.10         2.5%	(1)
C1608X7R103□ GTS         C1608X7R103□ GT         1V, 1kHz         10         nF         ±5%,±10%,±20%         0.80         ±0.10         ±0.10         2.5%           C1608X7R123KGTS         C1608X7R123KGT         1V, 1kHz         12         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R153KGTS         C1608X7R153KGT         1V, 1kHz         15         nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R183□ GTS         C1608X7R183□ GT         1V, 1kHz         18         nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R223KGTS         C1608X7R223KGT         1V, 1kHz         22         nF         ±10%         0.80         ±0.10         ±0.10         2.5%	(1)
C1608X7R123KGTS         C1608X7R123KGT         1V , 1kHz         12 nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R153KGTS         C1608X7R153KGT         1V , 1kHz         15 nF         ±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R183□ GTS         C1608X7R183□ GT         1V , 1kHz         18 nF         ±5%,±10%         0.80         ±0.10         ±0.10         2.5%           C1608X7R223KGTS         C1608X7R223KGT         1V , 1kHz         22 nF         ±10%         0.80         ±0.10         ±0.10         2.5%	(l) (l)
C1608X7R153KGTS       C1608X7R153KGT       1V , 1kHz       15 nF       ±10%       0.80       ±0.10       ±0.10       2.5%         C1608X7R183□ GTS       C1608X7R183□ GT       1V , 1kHz       18 nF       ±5%,±10%       0.80       ±0.10       ±0.10       2.5%         C1608X7R223KGTS       C1608X7R223KGT       1V , 1kHz       22 nF       ±10%       0.80       ±0.10       ±0.10       2.5%	(I)
C1608X7R183□ GTS       C1608X7R183□ GT       1V , 1kHz       18 nF       ±5%,±10%       0.80       ±0.10       ±0.10       2.5%         C1608X7R223KGTS       C1608X7R223KGT       1V , 1kHz       22 nF       ±10%       0.80       ±0.10       ±0.10       2.5%	(I)
C1608X7R223KGTS C1608X7R223KGT 1V , 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 2.5%	(I)
	(I)
C1608X7R273KGTS   C1608X7R273KGT   1V , 1kHz   27   nF   ±10%   0.80   ±0.10   ±0.10   2.5%	(I)
C1608X7R333KGTS C1608X7R333KGT 1V , 1kHz 33 nF ±10% 0.80 ±0.15 ±0.15 2.5%	(I)
C1608X7R393KGTS C1608X7R393KGT 1V, 1kHz 39 nF ±10% 0.80 ±0.15 ±0.15 2.5%	(I)
C1608X7R473KGTS C1608X7R473KGT 1V , 1kHz 47 nF ±10% 0.80 ±0.15 ±0.15 3.0%	(I)
C1608X7R563KGTS C1608X7R563KGT 1V , 1kHz 56 nF ±10% 0.80 ±0.15 ±0.15 3.0%	(l)
C1608X7R683KGTS C1608X7R683KGT 1V , 1kHz 68 nF ±10% 0.80 ±0.15 ±0.15 3.0%	(l)
C1608X7R823KGTS C1608X7R823KGT 1V , 1kHz 82 nF ±10% 0.80 ±0.15 ±0.15 3.0%	(l)
C1608X7R104G GTS C1608X7R104G GT 1V, 1kHz 100 nF ±5%,±10%,±20% 0.80 ±0.15 ±0.15 3.0%	(II)
C1608X7R154KGTS C1608X7R154KGT 1V , 1kHz 150 nF ±10% 0.80 ±0.15 ±0.15 3.5%	(II)
C1608X7R224G GTS C1608X7R224G GT 1V , 1kHz 220 nF ±5%,±10% 0.80 ±0.15 ±0.15 3.5%	(II)
C1608X7R334KGTS C1608X7R334KGT 1V , 1kHz 330 nF ±10% 0.80 ±0.15 ±0.15 10.0%	(II)
C1608X7R474KGTS C1608X7R474KGT 1V , 1kHz 470 nF ±10% 0.80 ±0.15 ±0.15 10.0%	(II)
C1608X7R105KGTS C1608X7R105KGT 1V , 1kHz 1.0 uF ±10% 0.80 ±0.20 ±0.20 10.0%	(II)
C1608X7R474KNTS C1608X7R474KNT 1V , 1kHz 470 nF ±10% 0.80 ±0.15 ±0.15 10.0%	(II)
35V C1608X7R105KNTS C1608X7R105KNT 1V , 1kHz 1.0 uF ±10% 0.80 ±0.20 ±0.20 10.0% Paper,	TKpcs (II)
C1608X7R101KFTS C1608X7R101KFT 1V , 1kHz 100 pF ±10% 0.80 ±0.10 ±0.10 3.5%	(I)
C1608X7R121KFTS C1608X7R121KFT 1V , 1kHz 120 pF ±10% 0.80 ±0.10 ±0.10 3.5%	(I)
C1608X7R151KFTS C1608X7R151KFT 1V , 1kHz 150 pF ±10% 0.80 ±0.10 ±0.10 3.5%	(l)
C1608X7R181KFTS C1608X7R181KFT 1V , 1kHz 180 pF ±10% 0.80 ±0.10 ±0.10 3.5%	(l)
C1608X7R221KFTS C1608X7R221KFT 1V , 1kHz 220 pF ±10% 0.80 ±0.10 ±0.10 3.5%	(l)
C1608X7R271KFTS C1608X7R271KFT 1V , 1kHz 270 pF ±10% 0.80 ±0.10 ±0.10 3.5%	(I)
C1608X7R331KFTS C1608X7R331KFT 1V , 1kHz 330 pF ±10% 0.80 ±0.10 ±0.10 3.5%	(I)
C1608X7R391KFTS C1608X7R391KFT 1V , 1kHz 390 pF ±10% 0.80 ±0.10 ±0.10 3.5%	(I)
C1608X7R471KFTS C1608X7R471KFT 1V , 1kHz 470 pF ±10% 0.80 ±0.10 ±0.10 3.5%	(I)
C1608X7R561KFTS C1608X7R561KFT 1V , 1kHz 560 pF ±10% 0.80 ±0.10 ±0.10 3.5%	(l)
25V C1608X7R681KFTS C1608X7R681KFT 1V , 1kHz 680 pF ±10% 0.80 ±0.10 ±0.10 3.5% Paper,	Kpcs (I)
C1608X7R821KFTS	(I)
C1608X7R102KFTS	(I)
C1608X7R122KFTS C1608X7R122KFT 1V , 1kHz 1.2 nF ±10% 0.80 ±0.10 ±0.10 3.5%	(I)
C1608X7R152KFTS C1608X7R152KFT 1V , 1kHz 1.5 nF ±10% 0.80 ±0.10 ±0.10 3.5%	(I)
C1608X7R182KFTS	(I)
C1608X7R222KFTS	(I)
C1608X7R272KFTS C1608X7R272KFT 1V , 1kHz 2.7 nF ±10% 0.80 ±0.10 ±0.10 3.5%	(I)
C1608X7R332KFTS C1608X7R332KFT 1V , 1kHz 3.3 nF ±10% 0.80 ±0.10 ±0.10 3.5%	(I)
C1608X7R392KFTS C1608X7R392KFT 1V , 1kHz 3.9 nF ±10% 0.80 ±0.10 ±0.10 3.5%	(l)
C1608X7R472KFTS C1608X7R472KFT 1V , 1kHz 4.7 nF ±10% 0.80 ±0.10 ±0.10 3.5%	(I)

				Measuring	Capaci	tance	Available	Thick.	Tolerand	e(mm)	DF	Standard	Test
CHORDWINDSPEED   CHORDWINDSPEED   V. THERE   0.2 oF   10%   0.00   0.0	RV	DARFON P/N	DARFON P/N 2								_		
CHRONOPREZERFT   V.   SHEZE   2.2   of   410%   0.80   4.010   4.010   3.0%   0.00		C1608X7R562KFTS	C1608X7R562KFT	1V , 1kHz	5.6	nF	±10%	0.80	±0.10	±0.10	3.5%		(l)
C10800FF103-F15   C10800FF103-F1   V, V, INFE 20   O   F   1994-1199   O   O   D   D   D   D   D   D   D   D		C1608X7R682KFTS	C1608X7R682KFT		6.8	nF		0.80					
CHOSSYPTIZZKFTS   CHOSSYPTIZZKFTS   17, 1872   12													
CHORANTHISKET   CHORANTHISKET   17, 1942   15   0F   ±10%   0.00   ±0.10   5.0%   0.0													
CHORROFFISIANTES  CHORROFFISIANTES  17, 1414/2   20   71   25%, 10%													
CHORNATICALE FIRS   CHORNATICALE FIRS   11, 1614;   22   67   25%, 110%   0.80   25.0   0.3010   3.5%													
CIRRIGENTEZTS FTS   CIRRIGENTEZSTEF   17, 1942   27   FF   125% 105% 0.50   12.10   3.51% 0.50													
C1680X7938XFTS   C1680X7938XFT   IV, 18NE, 30   nF   110%					27			0.80	±0.10	±0.10			
C1680X7FR3XFFTS   C1680X7FR3XFFT   IV, INLEX   50   F   ±10%   0.80   ±0.10   ±0.10   ±3.5%   (0.10   ±0.10		C1608X7R333KFTS	C1608X7R333KFT	1V , 1kHz	33	nF	±10%	0.80	±0.10	±0.10	3.5%		
		C1608X7R393KFTS	C1608X7R393KFT			nF							
C1680X7R83XFTS   C1680X7R83XFT   V, 11412   68   nF   ±10%   0.80   40.10   ±0.10   3.5%   0.00   0.10   0.10   3.5%   0.00   0.10   0.10   3.5%   0.00   0.10													
C169828718239FT 5  C169828718239FT 9  V, 1847 82	25V											Paper, 4Kpcs	
C168887R104FTRS													
C16680XTR1344FTS   C16680XTR1344FT   V, 1814z   120   nF   110%   0.80   20.15   20.15   3.5%   0.95     C16680XTR1344FTS   C16680XTR1344FT   V, 1814z   180   nF   110%   0.80   20.15   20.15   3.5%   0.95     C16680XTR3344FTS   C16680XTR2344FT   V, 1814z   180   nF   110%   0.80   20.15   20.15   3.5%   0.95     C16680XTR3344FTS   C16680XTR3344FT   V, 1814z   330   nF   110%   0.80   20.15   20.15   3.5%   0.95     C16680XTR3344FTS   C16680XTR3344FT   V, 1814z   330   nF   110%   0.80   20.15   20.15   7.0%   0.95     C16680XTR344FTS   C16680XTR344FT   V, 1814z   330   nF   110%   0.80   20.15   20.15   7.0%   0.95     C16680XTR344FTS   C16680XTR344FT   V, 1814z   300   nF   110%   0.80   20.15   20.15   7.0%   0.95     C16680XTR344FTS   C16680XTR344FT   V, 1814z   470   nF   110%   0.80   20.15   20.15   10.0%   0.95     C16680XTR344FTS   C16680XTR344FT   V, 1814z   470   nF   110%   0.80   20.15   20.15   10.0%   0.95     C16680XTR344FTS   C16680XTR344FT   V, 1814z   1.0   uF   110%   0.80   20.10   20.15   20.15   10.0%   0.95     C16680XTR344FTS   C16680XTR344FT   V, 1814z   1.0   uF   110%   0.80   20.10   20.10   20.10   20.05   0.95     C16680XTR344FTS   C16680XTR344FT   V, 1814z   1.0   uF   110%   0.80   20.10   20.10   20.10   20.05     C16680XTR344FTS   C16680XTR344FT   V, 1814z   1.0   uF   110%   0.80   20.10   20.10   20.05   0.05     C16680XTR344FTS   C16680XTR344FT   V, 1814z   1.0   uF   110%   0.80   20.10   20.10   20.05     C16680XTR344FTS   C16680XTR344FT   V, 1814z   1.0   uF   110%   0.80   20.10   20.10   20.05     C16680XTR344FTS   C16680XTR344FT   V, 1814z   270   uF   110%   0.80   20.10   20.10   20.05     C16680XTR341FTS   C16680XTR344FT   V, 1814z   270   uF   110%   0.80   20.10   20.10   20.05     C16680XTR341FTS   C16680XTR344FT   V, 1814z   270   uF   110%   0.80   20.10   20.10   5.0%     C16680XTR341FTS   C16680XTR344FT   V, 1814z   270   uF   110%   0.80   20.10   20.10   5.0%     C16680XTR341FTS   C16680XTR344FT   V, 1814z   270   uF   110%   0.80   20.10   20.10   5.0%												•	
C16682XTR164FFTS													
C16083/TR224   FT   C16083/TR2244   FT   17, 18142   220					150								
C1608XPR334KF1   C1608XPR34KFT   1V, 1814Z   300		C1608X7R184KFTS	C1608X7R184KFT	1V , 1kHz	180	nF	±10%	0.80	±0.15	±0.15	3.5%		(I)
C166887R3946FF   C166887R3946FF   1V, 18Ftz   500		C1608X7R224□ FTS	C1608X7R224□ FT	1V , 1kHz	220	nF	±10%,±20%	0.80	±0.15	±0.15	3.5%		(I)
C1608X7R474E-FTS   C1608X7R474E-FT   IV, 1HzPt   470   n.P.   a10%, 120%   0.80   a1.015   a1.015   10.076   (0)													
C160887R5964FT   C160887R594FFT   V1, 1447   560   np													
C1608/RF196KT   C1608/RF23KT   V1, NHz   V2, UF   a10%   0.80   a0.20   10.0%   (II)													
C1608/R7629KFT   C1608/R7629KFT   V1, NHz   V2, NHz   C1608/R7619KETS   C1608/R7612KETS   V1, NHz   C1608/R7619KETS   C1608/R7612KET   V1, NHz   C1608/R7619KETS   C1608/R7613KETS   V1, NHz   C1608/R7619KETS   C1608/R7619KETS   V1, NHz   C1608/R7619KETS   C1608/R7619KETS   C1608/R7619KETS   V1, NHz   C1608/R7619KETS   C1608/R7619KETS   V1, NHz   C1608/R7619KETS   C1608/R7619KETS   V1, NHz   C1608/R7619KETS   C1608/R7619KETS   V1, NHz   C1608/R7619KETS   C1608/R7619KETS   V1, NHz   C1608/R7619KETS   V1, NHz   C1608/R7619KETS   V1, NHz   C1608/R7619KETS   V1, NHz   C1608/R7619KETS   C1608/R7619KETS   V1, NHz   C1608/R7619KETS   V1, NHz   C1608/R7619KETS   C1608/R7619KETS   V1, NHz													
C1688/PF101KETS C1688/FR10KET V. 18Hz 100 pF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/PF12KETS C1688/FR15KETS V. 18Hz 120 pF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/PF13KETS C1688/FR15KETS V. 18Hz 150 pF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/PF13KETS C1688/FR15KETS V. 18Hz 150 pF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/PF21KETS C1688/FR22KET V. 18Hz 120 pF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/PF21KETS C1688/FR22KET V. 18Hz 120 pF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR22KETS C1688/FR22KET V. 18Hz 120 pF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR23KETS C1688/FR23KET V. 18Hz 130 pF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR33KETS C1688/FR33KET V. 18Hz 1300 pF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR33KETS C1688/FR33KET V. 18Hz 1300 pF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR31KETS C1688/FR33KET V. 18Hz 470 pF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR31KETS C1688/FR33KET V. 18Hz 470 pF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR31KETS C1688/FR33KET V. 18Hz 470 pF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR31KETS C1688/FR31KET V. 18Hz 470 pF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR31KETS C1688/FR31KET V. 18Hz 470 pF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR31KETS C1688/FR31KET V. 18Hz 480 pF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR31KETS C1688/FR31KET V. 18Hz 480 pF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR31KETS C1688/FR31KET V. 18Hz 480 pF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR31KETS C1688/FR31KET V. 18Hz 10 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR31KETS C1688/FR31KET V. 18Hz 10 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR31KETS C1688/FR32KET V. 18Hz 1.2 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR32KET V. 18Hz 1.2 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR32KET V. 18Hz 1.2 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR32KET V. 18Hz 1.2 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR32KET V. 18Hz 1.2 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR32KET V. 18Hz 1.2 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR32KET V. 18Hz 1.2 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR32KET C1688/FR33KET V. 18Hz 1.2 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1688/FR33KET C1688/FR33KET V. 18													
C1608XPR12IKETS   C1608XPR13IKET   V, 11kLz   120   pf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR13IKETS   C1608XPR13IKET   V, 11kLz   150   pf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR2IKETS   C1608XPR2IKET   V, 11kLz   180   pf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR2IKETS   C1608XPR2IKET   V, 11kLz   270   pf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR2IKETS   C1608XPR2IKET   V, 11kLz   270   pf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR3IKET   C1608XPR3IKET   V, 11kLz   270   pf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR3IKET   C1608XPR3IKET   V, 11kLz   470   pf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR3IKET   V, 11kLz   470   pf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR3IKET   V, 11kLz   560   pf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR3IKET   V, 11kLz   560   pf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR3IKET   V, 11kLz   560   pf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR3IKET   V, 11kLz   520   pf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR3IKET   V, 11kLz   520   pf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR3IKET   V, 11kLz   520   pf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR3IXETS   C1608XPR3IXETS   V, 11kLz   520   pf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR3IXETS   C1608XPR3IXETS   V, 11kLz   5.0   pf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR3IXETS   C1608XPR3IXETS   V, 11kLz   1.5   nf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR3IXETS   C1608XPR3IXETS   V, 11kLz   2.2   nf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR3IXETS   C1608XPR3IXETS   V, 11kLz   2.7   nf   ±10%   0.80   ±0.10   ±0.10   5.0%   ()   ()   C1608XPR3IXETS   C1608XPR3IXETS   V, 11kLz   2.7   nf   ±10%   0.80   ±0.10   ±0.10   5.0%   () ()   () C1608XPR3IXETS   C1608XPR3IXETS   V, 11kLz   2.7   nf   ±10%   0.80   ±0.10   ±0.10   5.0%   () () () () C1608XPR3													. ,
C1608X7R31KETS   C1608X7R31KET   1V, 1kHz   100   pF													
C1608X7R2ZIKETS		C1608X7R151KETS	C1608X7R151KET	1V , 1kHz	150	pF	±10%	0.80	±0.10	±0.10	5.0%		(I)
C1608X7R231KETS   C1608X7R231KET   V, 1kHz   330   pF   ±10%   0.80   ±0.10   ±0.10   5.0%   (0)		C1608X7R181KETS	C1608X7R181KET			pF		0.80		±0.10			
C1608X7R391kETS   C1608X7R391kET   V, 1kHz   330   pf   ±10%   0.80   ±0.10   ±0.10   5.0%						_							
C1698X7R391ETS													
C1608X7R631KETS						_							
C1608X7R681KETS							,						
C1608X7R821KETS						_							
C1608X7R32KETS C1608X7R32KET 1V, 1kHz 12 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R32KETS C1608X7R32KET 1V, 1kHz 1.5 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R32KETS C1608X7R32KET 1V, 1kHz 1.5 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R32KETS C1608X7R32KET 1V, 1kHz 1.5 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R32KETS C1608X7R32KET 1V, 1kHz 1.5 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R32KETS C1608X7R32KET 1V, 1kHz 1.5 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R32KETS C1608X7R32KET 1V, 1kHz 2.2 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R32KETS C1608X7R32KET 1V, 1kHz 3.3 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R32KETS C1608X7R32KET 1V, 1kHz 3.3 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R32KETS C1608X7R32KET 1V, 1kHz 3.3 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R32KETS C1608X7R32KET 1V, 1kHz 3.3 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R32KETS C1608X7R32KET 1V, 1kHz 3.3 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R32KETS C1608X7R32KET 1V, 1kHz 3.3 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R32KETS C1608X7R32KET 1V, 1kHz 3.2 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R32KETS C1608X7R32KET 1V, 1kHz 3.2 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R32KETS C1608X7R32KET 1V, 1kHz 3.2 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R33KET C1608X7R32KET 1V, 1kHz 3.2 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R33KETS C1608X7R33KET 1V, 1kHz 3.3 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R33KETS C1608X7R33KET 1V, 1kHz 3.3 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R33KETS C1608X7R33KET 1V, 1kHz 3.3 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R33KETS C1608X7R33KET 1V, 1kHz 3.3 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R33KET 1V, 1kHz 3.3 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R33KETS C1608X7R33KET 1V, 1kHz 3.3 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R33KETS C1608X7R33KET 1V, 1kHz 3.3 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R33KETS C1608X7R33KET 1V, 1kHz 3.3 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R33KETS C1608X7R33KET 1V, 1kHz 3.3 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R33KETS C1608X7R33KET 1V, 1kHz 2.2 nF ±10% 0.80 ±0.10 ±0.10 5.0% (0) C1608X7R33K													
C1608X7R122KETS		C1608X7R821KETS	C1608X7R821KET	1V , 1kHz	820	pF	±10%	0.80	±0.10	±0.10	5.0%		(I)
C1608X7R152KETS		C1608X7R102KETS	C1608X7R102KET			nF							
C1608X7R182KETS													
C1608X7R222KETS													
C1608X/R272KETS													
C1608X7R332KETS												•	
C1608X7R392KETS													
C1608X/R472KETS													
C1608X7R682KETS		C1608X7R472KETS	C1608X7R472KET		4.7	nF	±10%	0.80	±0.10	±0.10	5.0%	•	
C1608X7R822KETS		C1608X7R562KETS	C1608X7R562KET	1V , 1kHz	5.6	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
C1608X7R822KETS C1608X7R133KET 1V, 1kHz 10 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R133KETS C1608X7R133KET 1V, 1kHz 112 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R133KETS C1608X7R133KET 1V, 1kHz 12 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R153KETS C1608X7R153KET 1V, 1kHz 18 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R153KETS C1608X7R153KET 1V, 1kHz 18 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R23KETS C1608X7R153KET 1V, 1kHz 18 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R23KETS C1608X7R23KET 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R333KETS C1608X7R333KET 1V, 1kHz 27 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R333KETS C1608X7R333KET 1V, 1kHz 33 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R333KETS C1608X7R333KET 1V, 1kHz 39 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R333KETS C1608X7R333KET 1V, 1kHz 39 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R333KETS C1608X7R333KET 1V, 1kHz 39 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R333KETS C1608X7R333KET 1V, 1kHz 39 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R533KETS C1608X7R563KET 1V, 1kHz 47 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R633KETS C1608X7R633KET 1V, 1kHz 56 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R833KETS C1608X7R833KET 1V, 1kHz 82 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R833KETS C1608X7R823KET 1V, 1kHz 82 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R823KETS C1608X7R823KET 1V, 1kHz 82 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R124KETS C1608X7R823KET 1V, 1kHz 100 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R124KETS C1608X7R124KET 1V, 1kHz 100 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R124KETS C1608X7R124KET 1V, 1kHz 180 nF ±10% 0.80 ±0.10 ±0.10 5.0% (II) C1608X7R124KETS C1608X7R124KET 1V, 1kHz 180 nF ±10% 0.80 ±0.15 ±0.15 5.0% (II) C1608X7R124KETS C1608X7R124KET 1V, 1kHz 180 nF ±10% 0.80 ±0.15 ±0.15 5.0% (II) C1608X7R124KETS C1608X7R124KET 1V, 1kHz 180 nF ±10% 0.80 ±0.15 ±0.15 5.0% (II) C1608X7R124KETS C1608X7R124KET 1V, 1kHz 470 nF ±10% 0.80 ±0.15 ±0.15 5.0% (II) C1608X7R124KETS C1608X7R124KET 1V, 1kHz 470 nF ±10% 0.80 ±0.15 ±0.15 5.0% (II) C1608X7R124K	16\/		C1608X7R682KET	1V , 1kHz	6.8	nF		0.80	±0.10	±0.10		Paner 4Kncs	(l)
C1608X7R123KETS	101											. apor, intpoo	
C1608X7R153KETS C1608X7R153KET 1V, 1kHz 15 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R183KETS C1608X7R183KET 1V, 1kHz 18 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R23KETS C1608X7R23KET 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R23KETS C1608X7R273KET 1V, 1kHz 27 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R333KET 1V, 1kHz 33 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R333KET C1608X7R333KET 1V, 1kHz 33 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R393KET C1608X7R393KET 1V, 1kHz 39 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R393KET C1608X7R393KET 1V, 1kHz 47 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R563KETS C1608X7R683KET 1V, 1kHz 47 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R563KETS C1608X7R683KET 1V, 1kHz 68 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R863KETS C1608X7R823KET 1V, 1kHz 82 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R104KETS C1608X7R104KET 1V, 1kHz 82 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R104KETS C1608X7R104KET 1V, 1kHz 100 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R104KETS C1608X7R154KET 1V, 1kHz 100 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R124KETS C1608X7R154KET 1V, 1kHz 150 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R154KETS C1608X7R154KET 1V, 1kHz 150 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R154KET 1V, 1kHz 150 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R154KET 1V, 1kHz 200 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 200 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 200 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 200 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 200 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 200 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 200 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 200 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 470 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 470 nF ±10% 0.80 ±0.15 ±0.15 5.0												•	
C1608X7R183KETS C1608X7R183KET 1V, 1kHz 18 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R223KETS C1608X7R223KET 1V, 1kHz 22 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R333KET 1V, 1kHz 27 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R333KET 1V, 1kHz 33 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R393KET 1V, 1kHz 33 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R393KET 1V, 1kHz 33 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R393KET 1V, 1kHz 47 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R393KET C1608X7R39KET 1V, 1kHz 47 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R563KET C1608X7R563KET 1V, 1kHz 56 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R693KET C1608X7R693KET 1V, 1kHz 68 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R823KET C1608X7R823KET 1V, 1kHz 88 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R104KET 1V, 1kHz 100 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R124KET C1608X7R124KET 1V, 1kHz 120 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R124KET C1608X7R134KET 1V, 1kHz 150 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R144KET C1608X7R134KET 1V, 1kHz 150 nF ±10% 0.80 ±0.10 ±0.10 5.0% (I) C1608X7R134KET C1608X7R134KET 1V, 1kHz 180 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 180 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 20 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 180 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 20 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 20 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 470 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 470 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 470 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 470 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 470 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 470 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C1608X7R34KETS C1608X7R34KET 1V, 1kHz 470 nF ±10% 0.80 ±0.15 ±0.15 5.0% (I) C160													
C1608X7R223KETS         C1608X7R223KET         1 V , 1kHz         22         nF         ±10%         0.80         ±0.10         ±0.10         5.0%           C1608X7R273KETS         C1608X7R273KET         1 V , 1kHz         27         nF         ±10%         0.80         ±0.10         ±0.10         5.0%           C1608X7R333KETS         C1608X7R333KET         1 V , 1kHz         33         nF         ±10%         0.80         ±0.10         ±0.10         5.0%           C1608X7R393KETS         C1608X7R393KET         1 V , 1kHz         39         nF         ±10%         0.80         ±0.10         ±0.10         5.0%           C1608X7R473KETS         C1608X7R473KET         1 V , 1kHz         47         nF         ±10%         0.80         ±0.10         ±0.10         5.0%           C1608X7R563KETS         C1608X7R563KET         1 V , 1kHz         56         nF         ±10%         0.80         ±0.10         ±0.10         5.0%           C1608X7R583KETS         C1608X7R683KET         1 V , 1kHz         56         nF         ±10%         0.80         ±0.10         ±0.10         5.0%           C1608X7R823KETS         C1608X7R23KET         1 V , 1kHz         82         nF         ±10%         0.80 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td></td></t<>												•	
C1608X7R273KETS													
C1608X7R333KETS         C1608X7R333KET         1V, 1kHz         33         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R393KETS         C1608X7R393KET         1V, 1kHz         39         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R473KETS         C1608X7R473KET         1V, 1kHz         47         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R563KETS         C1608X7R563KET         1V, 1kHz         56         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R683KETS         C1608X7R683KET         1V, 1kHz         68         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R194KETS         C1608X7R823KET         1V, 1kHz         82         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R104KETS         C1608X7R104KET         1V, 1kHz         100         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R124KETS         C1608X7													
C1608X7R473KETS         C1608X7R473KET         1V, 1kHz         47         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R563KETS         C1608X7R563KET         1V, 1kHz         56         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R683KETS         C1608X7R683KET         1V, 1kHz         68         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R823KETS         C1608X7R823KET         1V, 1kHz         82         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R104KETS         C1608X7R104KET         1V, 1kHz         100         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R124KETS         C1608X7R124KET         1V, 1kHz         120         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R154KETS         C1608X7R154KET         1V, 1kHz         150         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R154KETS         C1608		C1608X7R333KETS			33	nF	±10%	0.80	±0.10	±0.10	5.0%	•	
C1608X7R563KETS         C1608X7R563KET         1V, 1kHz         56         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R683KETS         C1608X7R683KET         1V, 1kHz         68         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R823KETS         C1608X7R823KET         1V, 1kHz         82         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R104KETS         C1608X7R104KET         1V, 1kHz         100         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R124KETS         C1608X7R124KET         1V, 1kHz         120         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R154KETS         C1608X7R154KET         1V, 1kHz         150         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R184KETS         C1608X7R184KET         1V, 1kHz         180         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R334KETS         C160		C1608X7R393KETS	C1608X7R393KET	1V , 1kHz	39	nF	±10%	0.80	±0.10	±0.10	5.0%	•	
C1608X7R683KETS         C1608X7R683KET         1V, 1kHz         68         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R823KETS         C1608X7R823KET         1V, 1kHz         82         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R104KETS         C1608X7R104KET         1V, 1kHz         100         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R124KETS         C1608X7R124KET         1V, 1kHz         120         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R154KETS         C1608X7R154KET         1V, 1kHz         150         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R184KETS         C1608X7R184KET         1V, 1kHz         180         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R334KETS         C1608X7R334KET         1V, 1kHz         220         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R334KETS         C16		C1608X7R473KETS	C1608X7R473KET	1V , 1kHz	47	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
C1608X7R823KETS         C1608X7R823KET         1V, 1kHz         82         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R104KETS         C1608X7R104KET         1V, 1kHz         100         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R124KETS         C1608X7R124KET         1V, 1kHz         120         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R154KETS         C1608X7R154KET         1V, 1kHz         180         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R184KETS         C1608X7R154KETS         1V, 1kHz         180         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R224KETS         C1608X7R224KET         1V, 1kHz         220         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R334KETS         C1608X7R334KET         1V, 1kHz         330         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R37474KETS <td< td=""><td></td><td></td><td></td><td></td><td></td><td>nF</td><td></td><td></td><td></td><td></td><td></td><td>•</td><td></td></td<>						nF						•	
C1608X7R104KETS         C1608X7R104KET         1V, 1kHz         100         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R124KETS         C1608X7R124KET         1V, 1kHz         120         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R154KETS         C1608X7R154KET         1V, 1kHz         150         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R184KETS         C1608X7R154KET         1V, 1kHz         180         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R224KETS         C1608X7R224KET         1V, 1kHz         220         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R334KETS         C1608X7R334KET         1V, 1kHz         330         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R3747KETS         C1608X7R474KET         1V, 1kHz         470         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R684KETS													
C1608X7R124KETS         C1608X7R124KET         1V, 1kHz         120         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R154KETS         C1608X7R154KET         1V, 1kHz         150         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R184KETS         C1608X7R184KET         1V, 1kHz         180         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R224KETS         C1608X7R224KET         1V, 1kHz         220         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R334KETS         C1608X7R334KET         1V, 1kHz         330         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R474KETS         C1608X7R474KET         1V, 1kHz         470         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R684KETS         C1608X7R684KET         1V, 1kHz         680         nF         ±10%         0.80         ±0.15         ±0.15         10.0%         (I)           C1608X7R105□         ET<													
C1608X7R154KETS         C1608X7R154KET         1V, 1kHz         150         nF         ±10%         0.80         ±0.10         ±0.10         5.0%         (I)           C1608X7R184KETS         C1608X7R184KET         1V, 1kHz         180         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R224KETS         C1608X7R224KET         1V, 1kHz         220         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R334KETS         C1608X7R334KET         1V, 1kHz         330         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R474KETS         C1608X7R474KET         1V, 1kHz         470         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R684KETS         C1608X7R684KET         1V, 1kHz         680         nF         ±10%         0.80         ±0.15         ±0.15         10.0%         (I)           C1608X7R105□         ET         1V, 1kHz         1.0         uF         ±10%         0.80         ±0.15         ±0.15         10.0%         (II)													
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$												•	
C1608X7R224KETS         C1608X7R224KET         1V, 1kHz         220         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R334KETS         C1608X7R334KET         1V, 1kHz         330         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R474KETS         C1608X7R474KET         1V, 1kHz         470         nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R684KETS         C1608X7R684KET         1V, 1kHz         680         nF         ±10%         0.80         ±0.15         ±0.15         10.0%         (I)           C1608X7R105□         ETS         C1608X7R105□         ET         1V, 1kHz         1.0         uF         ±10%, ±20%         0.80         ±0.15         ±0.15         10.0%         (II)													
C1608X7R334KETS         C1608X7R334KET         1V , 1kHz         330 nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R474KETS         C1608X7R474KET         1V , 1kHz         470 nF         ±10%         0.80         ±0.15         ±0.15         5.0%         (I)           C1608X7R684KETS         C1608X7R684KET         1V , 1kHz         680 nF         ±10%         0.80         ±0.15         ±0.15         10.0%         (I)           C1608X7R105□ ETS         C1608X7R105□ ET         1V , 1kHz         1.0         uF         ±10%, ±20%         0.80         ±0.15         ±0.15         10.0%         (II)													
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$													
C1608X7R684KETS     C1608X7R684KET     1V , 1kHz     680     nF     ±10%     0.80     ±0.15     ±0.15     10.0%       C1608X7R105□     ETS     C1608X7R105□     ET     1V , 1kHz     1.0     uF     ±10%, ±20%     0.80     ±0.15     ±0.15     10.0%       (II)													
		C1608X7R684KETS			680	nF		0.80					
C1608X7R225 ETS   C1608X7R225 ET   1V , 1kHz   2.2   uF   ±10%, ±20%   0.80   ±0.20   ±0.20   10.0%   (II)													
		C1608X7R225 ETS	C1608X7R225□ ET	1V, 1kHz	2.2	uF	±10%, ±20%	0.80	±0.20	±0.20	10.0%		(II)

 $<sup>\</sup>hfill\Box$  Tolerance Code: K=±10%, M=±20% ;Special tolerance on the request.

<sup>(</sup>II)\* High temperature load life test are applicable in rated voltage \*100%. (II)/(II)\* are applied with derating voltage.



			Measuring	Capaci	tance	Available	Thick.	Tolerand	e(mm)	DF	Standard	Test
RV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
	C1608X7R101KDTS	C1608X7R101KDT	1V , 1kHz	100	рF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R121KDTS	C1608X7R121KDT	1V , 1kHz	120	pF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R151KDTS	C1608X7R151KDT	1V , 1kHz	150	pF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R181KDTS	C1608X7R181KDT	1V , 1kHz	180	pF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R221KDTS	C1608X7R221KDT	1V , 1kHz	220	pF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R271KDTS	C1608X7R271KDT	1V , 1kHz	270	pF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R331KDTS	C1608X7R331KDT	1V , 1kHz	330	pF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R391KDTS	C1608X7R391KDT	1V , 1kHz	390	pF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R471KDTS	C1608X7R471KDT	1V , 1kHz	470	pF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R561KDTS	C1608X7R561KDT	1V , 1kHz	560	pF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R681KDTS	C1608X7R681KDT	1V , 1kHz	680	pF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R821KDTS	C1608X7R821KDT	1V , 1kHz	820	pF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R102KDTS	C1608X7R102KDT	1V , 1kHz	1.0	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R122KDTS	C1608X7R122KDT	1V , 1kHz	1.2	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R152KDTS	C1608X7R152KDT	1V , 1kHz	1.5	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R182KDTS	C1608X7R182KDT	1V , 1kHz	1.8	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R222KDTS	C1608X7R222KDT	1V , 1kHz	2.2	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R272KDTS	C1608X7R272KDT	1V , 1kHz	2.7	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R332KDTS	C1608X7R332KDT	1V , 1kHz	3.3	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R392KDTS	C1608X7R392KDT	1V , 1kHz	3.9	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R472KDTS	C1608X7R472KDT	1V , 1kHz	4.7	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R562KDTS	C1608X7R562KDT	1V , 1kHz	5.6	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R682KDTS	C1608X7R682KDT	1V , 1kHz	6.8	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
10V	C1608X7R822KDTS	C1608X7R822KDT	1V , 1kHz	8.2	nF	±10%	0.80	±0.10	±0.10	5.0%	Paper, 4Kpcs	(l)
	C1608X7R103KDTS	C1608X7R103KDT	1V , 1kHz	10	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R123KDTS	C1608X7R123KDT	1V , 1kHz	12	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R153KDTS	C1608X7R153KDT	1V , 1kHz	15	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R183KDTS	C1608X7R183KDT	1V , 1kHz	18	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R223KDTS	C1608X7R223KDT	1V , 1kHz	22	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R273KDTS	C1608X7R273KDT	1V , 1kHz	27	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R333KDTS	C1608X7R333KDT	1V , 1kHz	33	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R393KDTS	C1608X7R393KDT	1V , 1kHz	39	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R473KDTS	C1608X7R473KDT	1V , 1kHz	47	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R563KDTS	C1608X7R563KDT	1V , 1kHz	56	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R683KDTS	C1608X7R683KDT	1V , 1kHz	68	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R823KDTS	C1608X7R823KDT	1V , 1kHz	82	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R104KDTS	C1608X7R104KDT	1V , 1kHz	100	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R124KDTS	C1608X7R124KDT	1V , 1kHz	120	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R154KDTS	C1608X7R154KDT	1V , 1kHz	150	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R224KDTS	C1608X7R224KDT	1V , 1kHz	220	nF	±10%	0.80	±0.15	±0.15	5.0%		(l)
	C1608X7R334KDTS	C1608X7R334KDT	1V , 1kHz	330	nF	±10%	0.80	±0.15	±0.15	10.0%		(l)
	C1608X7R474KDTS	C1608X7R474KDT	1V , 1kHz	470	nF	±10%	0.80	±0.15	±0.15	10.0%		(l)
	C1608X7R684KDTS	C1608X7R684KDT	1V , 1kHz	680	nF	±10%	0.80	±0.15	±0.15	10.0%		(I)
	C1608X7R105 DTS	C1608X7R105□ DT	1V , 1kHz	1.0	uF	±10%, ±20%	0.80	±0.15	±0.15	10.0%		(II)
	C1608X7R225KDTS	C1608X7R225KDT	1V , 1kHz	2.2	uF	±10%	0.80	±0.15	±0.15	10.0%		(II)
	C1608X7R475KDTS	C1608X7R475KDT	1V , 1kHz	4.7	uF	±10%	0.80	±0.20	±0.20	10.0%		(II)*
	C1608X7R223KCTS	C1608X7R223KCT	1V , 1kHz	22	nF	±10%	0.80	±0.10	±0.10	5.0%		(l)
	C1608X7R104KCTS	C1608X7R104KCT	1V , 1kHz	100	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R474KCTS	C1608X7R474KCT	1V , 1kHz	470	nF	±10%	0.80	±0.15	±0.15	10.0%		(I)
6.3V	C1608X7R105KCTS	C1608X7R105KCT	1V , 1kHz	1.0	uF	±10%	0.80	±0.15	±0.15	10.0%	Paper, 4Kpcs	(II)
	C1608X7R225KCTS	C1608X7R225KCT	1V , 1kHz	2.2	uF	±10%	0.80	±0.15	±0.15	10.0%		(II)
	C1608X7R475□ CTS	C1608X7R475 CT	1V , 1kHz	4.7	uF	±10%, ±20%	0.80	±0.20	±0.20	10.0%		(II)

 $<sup>\ \</sup>square$  Tolerance Code: J=±5%, K=±10%, M=±20%; Special tolerance on the request.

<sup>(</sup>II)\* High temperature load life test are applicable in rated voltage \*100%. (II)/(II)\* are applied with derating voltage.

### • C2012X7R Series (EIA0805)

DV	DAREON DA	DAREON DANA	Measuring	Capaci	tance	Available	Thick.	Tolerance	e(mm)	DF	Standard	Test
RV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
	C2012X7R101KGTS	C2012X7R101KGT	1V , 1kHz	100	pF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R151KGTS	C2012X7R151KGT	1V , 1kHz	150	рF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R181KGTS	C2012X7R181KGT	1V , 1kHz	180	рF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R221KGTS	C2012X7R221KGT	1V , 1kHz	220	pF	±10%	0.85	±0.15	±0.15	2.5%	1	(l)
	C2012X7R271KGTS	C2012X7R271KGT	1V , 1kHz	270	рF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R331KGTS	C2012X7R331KGT	1V , 1kHz	330	pF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R391KGTS	C2012X7R391KGT	1V , 1kHz	390	pF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R471KGTS	C2012X7R471KGT	1V , 1kHz	470	pF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R561KGTS	C2012X7R561KGT	1V , 1kHz	560	pF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R681KGTS	C2012X7R681KGT	1V , 1kHz	680	рF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R821KGTS	C2012X7R821KGT	1V , 1kHz	820	pF	±10%	0.85	±0.15	±0.15	2.5%	Paper, 4Kpcs	(l)
	C2012X7R102 GTS	C2012X7R102 GT	1V , 1kHz	1.0	nF	±5%, ±10%	0.85	±0.15	±0.15	2.5%	Paper, 4Kpcs	(l)
	C2012X7R122KGTS	C2012X7R122KGT	1V , 1kHz	1.2	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R152KGTS	C2012X7R152KGT	1V , 1kHz	1.5	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R182KGTS	C2012X7R182KGT	1V , 1kHz	1.8	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R222KGTS	C2012X7R222KGT	1V , 1kHz	2.2	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R272KGTS	C2012X7R272KGT	1V , 1kHz	2.7	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R332KGTS	C2012X7R332KGT	1V , 1kHz	3.3	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R392KGTS	C2012X7R392KGT	1V , 1kHz	3.9	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R472KGTS	C2012X7R472KGT	1V , 1kHz	4.7	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R562KGTS	C2012X7R562KGT	1V , 1kHz	5.6	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R682KGTS	C2012X7R682KGT	1V , 1kHz	6.8	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R682KGPSG		1V , 1kHz	6.8	nF	±10%	1.25	±0.15	±0.20	2.5%	Embossed, 3Kpcs	(l)
	C2012X7R822KGTS	C2012X7R822KGT	1V , 1kHz	8.2	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
50V	C2012X7R103 GTS	C2012X7R103 GT	1V , 1kHz	10	nF	±5%,±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R123KGTS	C2012X7R123KGT	1V , 1kHz	12	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R153KGTS	C2012X7R153KGT	1V , 1kHz	15	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R183KGTS	C2012X7R183KGT	1V , 1kHz	18	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R223 GTS	C2012X7R223 GT	1V , 1kHz	22	nF	±5%,±10%	0.85	±0.15	±0.15	2.5%	1	(l)
	C2012X7R273KGTS	C2012X7R273KGT	1V , 1kHz	27	nF	±10%	0.85	±0.15	±0.15	2.5%	1	(l)
	C2012X7R333KGTS	C2012X7R333KGT	1V , 1kHz	33	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R393KGTS	C2012X7R393KGT	1V , 1kHz	39	nF	±10%	0.85	±0.15	±0.15	2.5%	D 416	(l)
	C2012X7R473KGTS	C2012X7R473KGT	1V , 1kHz	47	nF	±10%	0.85	±0.15	±0.15	2.5%	Paper, 4Kpcs	(l)
	C2012X7R563KGTS	C2012X7R563KGT	1V , 1kHz	56	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R683KGTS	C2012X7R683KGT	1V , 1kHz	68	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R823KGTS	C2012X7R823KGT	1V , 1kHz	82	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R104 GTSD		1V , 1kHz	100	nF	±5%,±10%,±20%	0.80	±0.15	±0.10	2.5%		(l)
	C2012X7R104KGTS	C2012X7R104KGT	1V , 1kHz	100	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R124KGTS	C2012X7R124KGT	1V , 1kHz	120	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R154KGTS	C2012X7R154KGT	1V , 1kHz	150	nF	±10%	0.85	±0.15	±0.15	2.5%		(l)
	C2012X7R184KGTS	C2012X7R184KGT	1V , 1kHz	180	nF	±10%	0.85	±0.15	±0.15	3.0%		(l)
	C2012X7R184KGPSG		1V , 1kHz	180	nF	±10%	1.25	±0.15	±0.20	3.0%	Embossed, 3Kpcs	(l)
	C2012X7R224KGTS	C2012X7R224KGT	1V , 1kHz	220	nF	±10%	0.85	±0.15	±0.15	3.0%	Paper, 4Kpcs	(l)
	C2012X7R224KGPS	C2012X7R224KGP	1V , 1kHz	220	nF	±10%	1.25	±0.15	±0.20	3.0%		(l)
	C2012X7R334KGPS	C2012X7R334KGP	1V , 1kHz	330	nF	±10%	1.25	±0.15	±0.20	3.0%	1	(l)
	C2012X7R474KGPS	C2012X7R474KGP	1V , 1kHz	470	nF	±10%	1.25	±0.15	±0.20	3.5%		(l)
	C2012X7R684KGPS	C2012X7R684KGP	1V , 1kHz	680	nF	±10%	1.25	±0.15/±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)
	C2012X7R105 GPSG	C2012X7R105□ GP	1V , 1kHz	1.0	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%		(II)
	C2012X7R225KGPSG	C2012X7R225KGP	1V , 1kHz	2.2	uF	±10%	1.25	±0.20	±0.20	10.0%	1	(II)

			Measuring	Capaci	tance	Available	Thick.	Tolerance	e(mm)	DF	Standard	Test
RV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
35V	C2012X7R474KNPS	C2012X7R474KNP	1V , 1kHz	470	nF	±10%	1.25	±0.15	±0.20	3.5%	Embossed, 3Kpcs	(l)
	C2012X7R102KFTS	C2012X7R102KFT	1V , 1kHz	1.0	nF	±10%	0.85	±0.15	±0.15	3.5%		(l)
	C2012X7R122KFTS	C2012X7R122KFT	1V , 1kHz	1.2	nF	±10%	0.85	±0.15	±0.15	3.5%		(l)
	C2012X7R152KFTS	C2012X7R152KFT	1V , 1kHz	1.5	nF	±10%	0.85	±0.15	±0.15	3.5%		(l)
	C2012X7R182KFTS	C2012X7R182KFT	1V , 1kHz	1.8	nF	±10%	0.85	±0.15	±0.15	3.5%		(l)
	C2012X7R222KFTS	C2012X7R222KFT	1V , 1kHz	2.2	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R272KFTS	C2012X7R272KFT	1V , 1kHz	2.7	nF	±10%	0.85	±0.15	±0.15	3.5%		(l)
-	C2012X7R332KFTS	C2012X7R332KFT	1V , 1kHz	3.3	nF	±10%	0.85	±0.15	±0.15	3.5%		(l)
	C2012X7R392KFTS	C2012X7R392KFT	1V , 1kHz	3.9	nF	±10%	0.85	±0.15	±0.15	3.5%		(l)
-	C2012X7R472KFTS	C2012X7R472KFT	1V , 1kHz	4.7	nF	±10%	0.85	±0.15	±0.15	3.5%		(l)
	C2012X7R562KFTS	C2012X7R562KFT	1V , 1kHz 1V . 1kHz	5.6 6.8	nF	±10% ±10%	0.85	±0.15	±0.15	3.5% 3.5%		(l)
-	C2012X7R682KFTS C2012X7R103KFTS	C2012X7R682KFT C2012X7R103KFT	1V , 1kHz 1V , 1kHz	10	nF nF	±10%	0.85 0.85	±0.15 ±0.15	±0.15	3.5%		(l)
-	C2012X7R103KF1S	C2012X7R103KFT	1V , 1kHz	12	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R123KFTS	C2012X7R123KFT	1V , 1kHz	15	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R183KFTS	C2012X7R183KFT	1V , 1kHz	18	nF	±10%	0.85	±0.15	±0.15	3.5%	Paper, 4Kpcs	(I)
	C2012X7R223KFTS	C2012X7R223KFT	1V , 1kHz	22	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R273KFTS	C2012X7R273KFT	1V , 1kHz	27	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
-	C2012X7R333KFTS	C2012X7R333KFT	1V , 1kHz	33	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
25V	C2012X7R393KFTS	C2012X7R393KFT	1V , 1kHz	39	nF	±10%	0.85	±0.15	±0.15	3.5%		(l)
	C2012X7R473KFTS	C2012X7R473KFT	1V , 1kHz	47	nF	±10%	0.85	±0.15	±0.15	3.5%		(l)
	C2012X7R563KFTS	C2012X7R563KFT	1V , 1kHz	56	nF	±10%	0.85	±0.15	±0.15	3.5%		(l)
	C2012X7R683KFTS	C2012X7R683KFT	1V , 1kHz	68	nF	±10%	0.85	±0.15	±0.15	3.5%		(l)
	C2012X7R823KFTS	C2012X7R823KFT	1V , 1kHz	82	nF	±10%	0.85	±0.15	±0.15	3.5%		(l)
	C2012X7R104□ FTS	C2012X7R104□ FT	1V , 1kHz	100	nF	±5%,±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R124KFTS	C2012X7R124KFT	1V , 1kHz	120	nF	±10%	0.85	±0.15	±0.15	3.5%		(l)
	C2012X7R154KFTS	C2012X7R154KFT	1V , 1kHz	150	nF	±10%	0.85	±0.15	±0.15	3.5%		(l)
	C2012X7R184KFTS	C2012X7R184KFT	1V , 1kHz	180	nF	±10%	0.85	±0.15	±0.20	3.5%		(l)
	C2012X7R224KFTS	C2012X7R224KFT	1V , 1kHz	220	nF	±10%	0.85	±0.15	±0.15	3.5%		(l)
	C2012X7R224KFPS	C2012X7R224KFP	1V , 1kHz	220	nF	±10%	1.25	±0.15	±0.20	3.5%		(l)
	C2012X7R334KFPS	C2012X7R334KFP	1V , 1kHz	330	nF	±10%	1.25	±0.15	±0.20	5.0%		(l)
-	C2012X7R474KFPS C2012X7R684KFPS	C2012X7R474KFP	1V , 1kHz 1V . 1kHz	470 680	nF	±10% ±10%	1.25 1.25	±0.15/±0.20	±0.20	5.0% 5.0%		(l)
-	C2012X7R084KFPS C2012X7R105□ FPS	C2012X7R684KFP C2012X7R105□ FP	1V , 1kHz 1V , 1kHz	1.0	nF uF	±10% ±10%, ±20%	1.25	±0.15/±0.20 ±0.15/±0.20	±0.20	10.0%	Embossed, 3Kpcs	(I)
-	C2012X7R105\(\text{TPS}\)	C2012X7R105 FP	1V , 1kHz	2.2	ur uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%	Ellibosseu, anpcs	(II) (II)
	C2012X7R335KFPS	C2012X7R2335KFP	1V , 1kHz	3.3	uF	±10%	1.25	±0.15/±0.20	±0.20	12.5%		(II)*
-	C2012X7R475KFPS	C2012X7R475KFP	1V , 1kHz	4.7	uF	±10%	1.25	±0.15/±0.20	±0.20	12.5%		(II)*
	C2012X7R106KFPS	C2012X7R106KFP	1V , 1kHz	10	uF	±10%	1.25	±0.20	±0.20	12.5%		(II)*
	C2012X7R123KETS	C2012X7R123KET	1V , 1kHz	12	nF	±10%	0.85	±0.15	±0.15	3.5%		(l)
	C2012X7R104KETS	C2012X7R104KET	1V , 1kHz	100	nF	±10%	0.85	±0.15	±0.15	3.5%	Paper, 4Kpcs	(l)
	C2012X7R224KETS	C2012X7R224KET	1V , 1kHz	220	nF	±10%	0.85	±0.15	±0.15	3.5%		(l)
	C2012X7R224KEPS	C2012X7R224KEP	1V , 1kHz	220	nF	±10%	1.25	±0.15	±0.20	3.5%		(l)
	C2012X7R334KEPS	C2012X7R334KEP	1V , 1kHz	330	nF	±10%	1.25	±0.15	±0.20	5.0%		(l)
16V	C2012X7R474KEPS	C2012X7R474KEP	1V , 1kHz	470	nF	±10%	1.25	±0.15/±0.20	±0.20	5.0%		(l)
100	C2012X7R684KEPS	C2012X7R684KEP	1V , 1kHz	680	nF	±10%	1.25	±0.15/±0.20	±0.20	5.0%		(l)
	C2012X7R105  EPS	C2012X7R105□ EP	1V , 1kHz	1.0	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	5.0%	Embossed, 3Kpcs	(l)
	C2012X7R225 EPS	C2012X7R225□ EP	1V , 1kHz	2.2	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%		(II)
-	C2012X7R335KEPS	C2012X7R335KEP	1V , 1kHz	3.3	uF	±10%	1.25	±0.15/±0.20	±0.20	10.0%		(II)
	C2012X7R475 EPS	C2012X7R475 EP	1V , 1kHz	4.7	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%		(II)
	C2012X7R106□ EPS	C2012X7R106 EP	1V , 1kHz	10	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%		(II)*
-	C2012X7R105□ DPS	C2012X7R105 DP	1V , 1kHz	1.0	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	5.0%		(l)
	C2012X7R225□ DPS	C2012X7R225□ DP	1V , 1kHz	2.2	uF 	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%		(II)
10V	C2012X7R335KDPS C2012X7R475KDPS	C2012X7R335KDP C2012X7R475KDP	1V , 1kHz 1V , 1kHz	3.3	uF uF	±10% ±10%	1.25	±0.15/±0.20	±0.20 ±0.20	10.0%	Embossed, 3Kpcs	(II)
-			,	4.7 10			1.25	±0.15/±0.20				(II)
	C2012X7R106KDPS C2012X7R226MDPS	C2012X7R106KDP C2012X7R226MDP	1V , 1kHz 0.5V , 120Hz	22	uF uF	±10% ±20%	1.25 1.25	±0.15/±0.20 ±0.20	±0.20 ±0.20	10.0%		(II) (II)*
	C2012X7R226MDPS C2012X7R335KCPS	C2012X7R226MDP	1V , 1kHz	3.3	uF uF	±10%	1.25	±0.20 ±0.15/±0.20	±0.20	10.0%		(II)
-	C2012X7R335RCF3	C2012X7R475KCP	1V , 1kHz	4.7	uF	±10%	1.25	±0.15/±0.20	±0.20	10.0%		(II)
6.3V	C2012X7R106□ CPS	C2012X7R106 CP	1V , 1kHz	10	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	15.0%	Embossed, 3Kpcs	(II)
	C2012X7R226MCPS	C2012X7R226MCP	0.5V , 120Hz	22	uF	±20%	1.25	±0.20	±0.20	10.0%		(II)*
		C2012X7R106□ BP	1V , 1kHz	10	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	15.0%	Embossed, 3Kpcs	(II)

 $<sup>\</sup>hfill\Box$  Tolerance Code: K=±10%, M=±20% ;Special tolerance on the request.

<sup>(</sup>II)\* High temperature load life test are applicable in rated voltage \*100%. (II)/(II)\* are applied with derating voltage.

### • C3216X7R Series (EIA1206)

Darbon P/N   Darbon P/N 2   Measuring   Condition   Value   Unit   Tolerance   Mailable   Thick.   (mm)   L/W   Thick.   (max.)	Standard Packing	Test Spec. (I) (I)
C3216X7R221KGTS C3216X7R221KGT 1V, 1kHz 220 pF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R102KGTS C3216X7R102KGT 1V, 1kHz 1.0 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R182KGTS C3216X7R182KGT 1V, 1kHz 1.8 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R222KGTS C3216X7R222KGT 1V, 1kHz 2.2 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R222KGTS C3216X7R22KGT 1V, 1kHz 2.2 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R472KGTS C3216X7R472KGT 1V, 1kHz 4.7 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R562□ GTS C3216X7R562□ GT IV, 1kHz 5.6 nF ±5%,±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R103□ GTS C3216X7R103□ GT 1V, 1kHz 10 nF ±10%,±20% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGT C3216X7R123KGT 1V, 1kHz 12 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R153KGTS C3216X7R153KGT 1V, 1kHz 15 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R183KGTS C3216X7R183KGT 1V, 1kHz 15 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R183KGTS C3216X7R183KGT 1V, 1kHz 18 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGTS C3216X7R183KGT 1V, 1kHz 18 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGTS C3216X7R183KGT 1V, 1kHz 18 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGTS C3216X7R123KGT 1V, 1kHz 18 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGTS C3216X7R123KGT 1V, 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGT 1V, 1kHz 18 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGT 1V, 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGT 1V, 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGT 1V, 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGT 1V, 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGT 1V, 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGT 1V, 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGT 1V, 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGT 1V, 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGT 1V, 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGT 1V, 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGT 1V, 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGT 1V, 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGT 1V, 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R123KGT 1V, 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5% C321		(l)
C3216X7R102KGTS         C3216X7R102KGT         1V, 1kHz         1.0         nF         ±10%         0.85         ±0.15         ±0.10         3.5%           C3216X7R182KGTS         C3216X7R182KGT         1V, 1kHz         1.8         nF         ±10%         0.85         ±0.15         ±0.10         3.5%           C3216X7R222KGTS         C3216X7R222KGT         1V, 1kHz         2.2         nF         ±10%         0.85         ±0.15         ±0.10         3.5%           C3216X7R472KGTS         C3216X7R472KGT         1V, 1kHz         4.7         nF         ±10%         0.85         ±0.15         ±0.10         3.5%           C3216X7R562□ GTS         C3216X7R103□ GT         1V, 1kHz         5.6         nF         ±5%,±10%         0.85         ±0.15         ±0.10         3.5%           C3216X7R103□ GTS         C3216X7R103□ GT         1V, 1kHz         10         nF         ±10%,±20%         0.85         ±0.15         ±0.10         3.5%           C3216X7R123KGTS         C3216X7R123KGT         1V, 1kHz         10         nF         ±10%         0.85         ±0.15         ±0.10         3.5%           C3216X7R183KGTS         C3216X7R183KGT         1V, 1kHz         15         nF         ±10%         0.85		(l)
C3216X7R182KGTS       C3216X7R182KGT       1V, 1kHz       1.8       nF       ±10%       0.85       ±0.15       ±0.10       3.5%         C3216X7R222KGTS       C3216X7R222KGT       1V, 1kHz       2.2       nF       ±10%       0.85       ±0.15       ±0.10       3.5%         C3216X7R472KGTS       C3216X7R472KGT       1V, 1kHz       4.7       nF       ±10%       0.85       ±0.15       ±0.10       3.5%         C3216X7R562□ GTS       C3216X7R562□ GT       1V, 1kHz       5.6       nF       ±5%,±10%       0.85       ±0.15       ±0.10       3.5%         C3216X7R103□ GTS       C3216X7R103□ GT       1V, 1kHz       10       nF       ±10%,±20%       0.85       ±0.15       ±0.10       3.5%         C3216X7R123KGTS       C3216X7R123KGT       1V, 1kHz       12       nF       ±10%       0.85       ±0.15       ±0.10       3.5%         C3216X7R153KGTS       C3216X7R153KGT       1V, 1kHz       15       nF       ±10%       0.85       ±0.15       ±0.10       3.5%         C3216X7R183KGTS       C3216X7R183KGT       1V, 1kHz       18       nF       ±10%       0.85       ±0.15       ±0.10       3.5%         C3216X7R223KGTS       C3216X7R23KGT       1		
C3216X7R222KGTS       C3216X7R222KGT       1V, 1kHz       2.2       nF       ±10%       0.85       ±0.15       ±0.10       3.5%         C3216X7R472KGTS       C3216X7R472KGT       1V, 1kHz       4.7       nF       ±10%       0.85       ±0.15       ±0.10       3.5%         C3216X7R562□ GTS       C3216X7R562□ GT       1V, 1kHz       5.6       nF       ±5%,±10%       0.85       ±0.15       ±0.10       3.5%         C3216X7R103□ GTS       C3216X7R103□ GT       1V, 1kHz       10       nF       ±10%,±20%       0.85       ±0.15       ±0.10       3.5%         C3216X7R123KGTS       C3216X7R123KGT       1V, 1kHz       12       nF       ±10%       0.85       ±0.15       ±0.10       3.5%         C3216X7R153KGTS       C3216X7R153KGT       1V, 1kHz       15       nF       ±10%       0.85       ±0.15       ±0.10       3.5%         C3216X7R183KGTS       C3216X7R183KGT       1V, 1kHz       18       nF       ±10%       0.85       ±0.15       ±0.10       3.5%         C3216X7R223KGTS       C3216X7R223KGT       1V, 1kHz       22       nF       ±10%       0.85       ±0.15       ±0.10       3.5%		
C3216X7R472KGTS         C3216X7R472KGT         1V, 1kHz         4.7         nF         ±10%         0.85         ±0.15         ±0.10         3.5%           C3216X7R562□ GTS         C3216X7R562□ GT         1V, 1kHz         5.6         nF         ±5%,±10%         0.85         ±0.15         ±0.10         3.5%           C3216X7R103□ GTS         C3216X7R103□ GT         1V, 1kHz         10         nF         ±10%,±20%         0.85         ±0.15         ±0.10         3.5%           C3216X7R123KGTS         C3216X7R123KGT         1V, 1kHz         12         nF         ±10%         0.85         ±0.15         ±0.10         3.5%           C3216X7R153KGTS         C3216X7R153KGT         1V, 1kHz         15         nF         ±10%         0.85         ±0.15         ±0.10         3.5%           C3216X7R183KGTS         C3216X7R183KGT         1V, 1kHz         18         nF         ±10%         0.85         ±0.15         ±0.10         3.5%           C3216X7R223KGTS         C3216X7R223KGT         1V, 1kHz         22         nF         ±10%         0.85         ±0.15         ±0.10         3.5%		(l)
C3216X7R562□ GTS       C3216X7R562□ GT       1V, 1kHz       5.6       nF       ±5%,±10%       0.85       ±0.15       ±0.10       3.5%         C3216X7R103□ GTS       C3216X7R103□ GT       1V, 1kHz       10       nF       ±10%,±20%       0.85       ±0.15       ±0.10       3.5%         C3216X7R123KGTS       C3216X7R123KGT       1V, 1kHz       12       nF       ±10%       0.85       ±0.15       ±0.10       3.5%         C3216X7R153KGTS       C3216X7R153KGT       1V, 1kHz       15       nF       ±10%       0.85       ±0.15       ±0.10       3.5%         C3216X7R183KGTS       C3216X7R183KGT       1V, 1kHz       18       nF       ±10%       0.85       ±0.15       ±0.10       3.5%         C3216X7R223KGTS       C3216X7R223KGT       1V, 1kHz       22       nF       ±10%       0.85       ±0.15       ±0.10       3.5%		(I)
C3216X7R103□ GTS     C3216X7R103□ GT     1V , 1kHz     10     nF     ±10%,±20%     0.85     ±0.15     ±0.10     3.5%       C3216X7R123KGTS     C3216X7R123KGT     1V , 1kHz     12     nF     ±10%     0.85     ±0.15     ±0.10     3.5%       C3216X7R153KGTS     C3216X7R153KGT     1V , 1kHz     15     nF     ±10%     0.85     ±0.15     ±0.10     3.5%       C3216X7R183KGTS     C3216X7R183KGT     1V , 1kHz     18     nF     ±10%     0.85     ±0.15     ±0.10     3.5%       C3216X7R223KGTS     C3216X7R223KGT     1V , 1kHz     22     nF     ±10%     0.85     ±0.15     ±0.10     3.5%		(I)
C3216X7R123KGTS C3216X7R123KGT 1V , 1kHz 12 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R153KGTS C3216X7R153KGT 1V , 1kHz 15 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R183KGTS C3216X7R183KGT 1V , 1kHz 18 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R223KGTS C3216X7R223KGT 1V , 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5%		(I)
C3216X7R153KGTS C3216X7R153KGT 1V , 1kHz 15 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R183KGTS C3216X7R183KGT 1V , 1kHz 18 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R223KGTS C3216X7R223KGT 1V , 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5%		(I)
C3216X7R183KGTS C3216X7R183KGT 1V , 1kHz 18 nF ±10% 0.85 ±0.15 ±0.10 3.5% C3216X7R223KGTS C3216X7R223KGT 1V , 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5%		(l)
C3216X7R223KGTS C3216X7R223KGT 1V , 1kHz 22 nF ±10% 0.85 ±0.15 ±0.10 3.5%		(I)
		(I)
C3216X7R273KGTS   C3216X7R273KGT   1V , 1kHz   27   nF   ±10%   0.85   ±0.15   ±0.10   3.5%		(I)
	Paper, 4Kpcs	(I)
C3216X7R393KGTS C3216X7R393KGT 1V , 1kHz 39 nF ±10% 0.85 ±0.15 ±0.10 3.5%	r upor, irrpoo	(I)
C3216X7P473KGTS C3216X7P473KGT 1V 1kHz 47 pF +10% 0.85 +0.15 +0.10 3.5%		(I)
50V C3216X7R563KGTS C3216X7R563KGT 1V , 1kHz 56 nF ±10% 0.85 ±0.15 ±0.10 3.5%		(I)
C3216X7R683KGTS C3216X7R683KGT 1V , 1kHz 68 nF ±10% 0.85 ±0.15 ±0.10 3.5%		(I)
C3216X7R823KGTS C3216X7R823KGT 1V , 1kHz 82 nF ±10% 0.85 ±0.15 ±0.10 3.5%		(I)
C3216X7R104:: GTS		(I)
C3216X7R224KGPS C3216X7R224KGP 1V , 1kHz 220 nF ±10% 0.95 ±0.15 ±0.10 3.5%		(I)
C3216X7R224KGPSF		
C3216X7R334\(\text{GPS}\) C3216X7R334\(\text{GP}\) C71 KHz 330 nF ±5%,±10% 1.25 ±0.15 ±0.15 3.5%	mbossed, 3Kpcs	(l) (l)
		(l)
	mbossed, 2Kpcs	(l)
C3216X7R684KGPS C3216X7R684KGP 1V , 1kHz 680 nF ±10% 1.60 +0.3/-0.1 +0.3/-0.1 3.5% E1 C3216X7R105KGPSG 1V , 1kHz 1.0 uF ±10% 1.25 ±0.15 ±0.15 3.5% En	h	(l)
	mbossed, 3Kpcs	(l)
		(l)
	mbossed, 2Kpcs	(II)
		(II)
		(II)
1 35V	mbossed, 2Kpcs	(I) (II)
	mhooood 21/noo	
	mbossed, 3Kpcs	(l)
25\/	mbossed, 2Kpcs	(l)
	mbossed, 3Kpcs	(l)
	mbossed, 2Kpcs	(l)
C3216X7R225KFPS C3216X7R225KFP 1V , 1kHz 2.2 uF ±10% 1.60 ±0.30 ±0.30 5.0%		(l)
	mbossed, 2Kpcs	(II)
C3216X7R106□ FPS C3216X7R106□ FP 1V , 1kHz 10 uF ±10%,±20% 1.60 ±0.30 ±0.30 10.0%	D 414	(II)*
	Paper, 4Kpcs	(l)
	mbossed, 3Kpcs	(l)
	mbossed, 2Kpcs	(l)
16V C3216X7R105KEPSL 1V , 1kHz 1.0 uF ±10% 1.60 ±0.30 ±0.30 5.0%		(l)
C3216X7R225KEPS C3216X7R225KEP 1V , 1kHz 2.2 ur ±10% 1.60 ±0.30 ±0.30 10.0%		(l)
	mbossed, 2Kpcs	(II)
C3216X7R106: EPS		(II)*
C3216X7R226: EPS		(II)*
C3216X7R225KDPS C3216X7R225KDP 1V , 1kHz 2.2 uF ±10% 1.60 ±0.30 ±0.30 10.0%		(l)
10V C3216X7R475□ DPS C3216X7R475□ DP 1V , 1kHz 4.7 UF ±10%,±20% 1.60 ±0.30 ±0.30 10.0% En	mbossed, 2Kpcs	(II)
C3216X7R106= DPS   C3216X7R106= DP   1V , 1KHz   10   uF   ±10%,±20%   1.60   ±0.30   ±0.30   10.0%		(II)
C3216X7R226a DPS		(II)*
6.3V C3216X7R106KCPS C3216X7R106KCP 1V , 1kHz 10 uF ±10% 1.60 ±0.30 ±0.30 10.0% En	mbossed, 2Kpcs	(II)
0.5V C3216X7R226KCPS C3216X7R226KCP 0.5V , 120Hz 22 uF ±10% 1.60 ±0.30 ±0.30 10.0%	mbosseu, znpcs	(II)

### • C3225X7R Series (EIA1210)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capaci	tance	Available	Thick.	Toleranc	e(mm)	DF	Standard	Test
N.V	DARFON F/N	DARFON F/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
	C3225X7R225MGPS	C3225X7R225MGP	1V , 1kHz	2.2	uF	±20%	2.50	±0.3/±0.2	±0.20	5.0%	Embossed, 1Kpcs	(II)
50V	C3225X7R475KGWS	C3225X7R475KGW	1V , 1kHz	4.7	uF	±10%	2.50	±0.3	±0.30	10.0%	Embossed, 0.5Kpcs	(II)
300	C3225X7R106KGWS	C3225X7R106KGW	1V , 1kHz	10	uF	±10%	2.00	±0.3/±0.2	±0.20	15.0%	Embossed, 1Kpcs	(II)
	C3225X7R106□ GPS	C3225X7R106□ GP	1V , 1kHz	10	uF	±10%,±20%	2.50	±0.30	±0.30	10.0%	Lilibosseu, Ircpcs	(II)
35V	C3225X7R106KNPS	C3225X7R106KNP	1V , 1kHz	10	uF	±10%	2.50	±0.30	±0.30	10.0%	Embossed, 1Kpcs	(II)
	C3225X7R475KFPS	C3225X7R475KFP	1V , 1kHz	4.7	uF	±10%	2.00	±0.3/±0.2	±0.20	10.0%	Embossed, 2Kpcs	(l)
25V	C3225X7R475KFPSP		1V , 1kHz	4.7	uF	±10%	2.50	±0.30	±0.30	10.0%	Embossed, 1Kpcs	(l)
	C3225X7R106KFPS	C3225X7R106KFP	1V , 1kHz	10	uF	±10%	2.00	±0.3/±0.2	±0.30	10.0%	Embossed, 2Kpcs	(II)
	C3225X7R475KEPS	C3225X7R475KEP	1V , 1kHz	4.7	uF	±10%	2.50	±0.3/±0.2	±0.20	5.0%	Embossed, 1Kpcs	(II)
16V	C3225X7R106KEPS	C3225X7R106KEP	1V , 1kHz	10	uF	±10%	2.00	±0.3/±0.2	±0.20	10.0%	Embossed, 2Kpcs	(II)
	C3225X7R226□ EPS	C3225X7R226□ EP	0.5V , 120Hz	22	uF	±10%,±20%	2.50	±0.3/±0.2	±0.30	10.0%	Embossed, 1Kpcs	(II)
10V	C3225X7R226KDPS	C3225X7R226KDP	0.5V , 120Hz	22	uF	±10%	2.50	±0.3/±0.2	±0.20	10.0%	Embossed, 1Kpcs	(II)
100	C3225X7R476□ DPS	C3225X7R476□ DP	0.5V , 120Hz	47	uF	±10%,±20%	2.50	±0.3/±0.2	±0.20	10.0%	Elliposseu, INPCS	(II)
6.3V	C3225X7R476MCPS	C3225X7R476MCP	0.5V , 120Hz	47	uF	±20%	2.50	±0.3/±0.2	±0.20	10.0%	Embossed, 1Kpcs	(II)

#### ■ X7S Series

#### • C0603X7S Series (EIA0201)

	RV	DARFON P/N	DARFON P/N 2	Measuring	Capac	itance	Available	Thick.	Tolerance	e(mm)	DF	Standard	Test
'	NV	DARFON F/N	DARFON F/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
1	16V	C0603X7S104□ ETS	C0603X7S104□ ET	1V , 1kHz	100	nF	±10%,±20%	0.30	± 0.05	±0.05	10.0%	Paper, 15Kpcs	(II)*
Γ,	10V	C0603X7S104KDTS	C0603X7S104KDT	1V , 1kHz	100	nF	±10%	0.30	± 0.05	±0.05	10.0%	Paper, 15Kpcs	(II)
	100	C0603X7S224KDTS	C0603X7S224KDT	1V , 1kHz	220	nF	±10%	0.30	± 0.05	±0.05	12.5%	rapei, ionpos	(II)*
6	6.3V	C0603X7S104KCTS	C0603X7S104KCT	1V , 1kHz	100	nF	±10%	0.30	± 0.05	±0.05	10.0%	Paper, 15Kpcs	(II)
L	). J v	C0603X7S224KCTS	C0603X7S224KCT	1V , 1kHz	220	nF	±10%	0.30	± 0.05	±0.05	12.5%	i apei, ionpos	(II)*

#### C1005X7S Series (EIA0402)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capac	itance	Available	Thick.	Tolerance	e(mm)	DF	Standard	Test
ΙΛV	DARFON F/N	DARFON F/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
10V	C1005X7S105KDTS	C1005X7S105KDT	1V , 1kHz	1.0	uF	±10%	0.50	± 0.10	±0.10	10.0%	Paper, 10Kpcs	(II)*
100	C1005X7S225 DTS	C1005X7S225 DT	1V , 1kHz	2.2	uF	±10%,±20%	0.50	± 0.20	±0.20	10.0%	rapei, iunpos	(II)*
6.3V	C1005X7S225KCTS	C1005X7S225KCT	1V , 1kHz	2.2	uF	±10%	0.50	± 0.20	±0.20	10.0%	Paper, 10Kpcs	(II)

#### C1608X7S Series (EIA0603)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capac	itance	Available	Thick.	Tolerance	e(mm)	DF	Standard	Test
KV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
25V	C1608X7S225KFTS	C1608X7S225KFT	1V , 1kHz	2.2	uF	±10%	0.80	±0.20	±0.20	10.0%	Paper, 4Kpcs	(II)*
16V	C1608X7S225KETS	C1608X7S225KET	1V , 1kHz	2.2	uF	±10%	0.80	± 0.20	±0.20	10.0%	Paper, 4Kpcs	(II)
100	C1608X7S475KETS	C1608X7S475KET	1V , 1kHz	4.7	uF	±10%	0.80	± 0.20	±0.20	10.0%	rapel, 4Npcs	(II)
	C1608X7S225KDTS	C1608X7S225KDT	1V , 1kHz	2.2	uF	±10%	0.80	±0.20	±0.20	10.0%		(II)
10V	C1608X7S475KDTS	C1608X7S475KDT	1V , 1kHz	4.7	uF	±10%	0.80	±0.20	±0.20	10.0%	Paper, 4Kpcs	(II)
	C1608X7S106MDTS	C1608X7S106MDT	1V , 1kHz	10	uF	±20%	0.80	±0.20	±0.20	10.0%		(II)*
6.3V	C1608X7S475KCTS	C1608X7S475KCT	1V , 1kHz	4.7	uF	±10%	0.80	±0.20	±0.20	10.0%	Paper, 4Kpcs	(II)
0.30	C1608X7S106MCTS	C1608X7S106MCT	1V , 1kHz	10	uF	±20%	0.80	±0.20	±0.20	10.0%	rapei, 4Npcs	(II)*

#### • C2012X7S Series (EIA0805)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capac	itance	Available	Thick.	Tolerance	e(mm)	DF	Standard	Test
ΚV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
50V	C2012X7S475KGPS	C2012X7S475KGP	1V , 1kHz	4.7	uF	±10%	1.25	± 0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)
	C2012X7S225KFPS	C2012X7S225KFP	1V , 1kHz	2.2	uF	±10%	1.25	± 0.15	±0.15	10.0%		(II)
25V	C2012X7S475KFPS	C2012X7S475KFP	1V , 1kHz	4.7	uF	±10%	1.25	±0.15/±0.20	±0.20	12.5%	Embossed, 3Kpcs	(II)*
	C2012X7S106□ FPS	C2012X7S106□ FP	1V , 1kHz	10	uF	±10%,±20%	1.25	± 0.20	±0.20	10.0%		(II)*
16V	C2012X7S106□ EPS	C2012X7S106□ EP	1V , 1kHz	10	uF	±10%, ±20%	1.25	±0.15/±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)*
10V	C2012X7S226MDPS	C2012X7S226MDP	0.5V , 120Hz	22	uF	±20%	1.25	±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)*
6.3V	C2012X7S226MCPS	C2012X7S226MCP	0.5V , 120Hz	22	uF	±20%	1.25	±0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)*

#### • C3216X7S Series (EIA1206)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capac	itance	Available	Thick.	Tolerance	e(mm)	DF	Standard	Test
ΝV	DARFON F/N	DARFON F/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
6.3V	C3216X7S476MCPS	C3216X7S476MCP	0.5V , 120Hz	47	uF	±20%	1.60	±0.30	±0.30	10.0%	Embossed,2Kpcs	(II)

#### • C3225X7S Series (EIA1210)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capac	itance	Available	Thick.	Tolerance	e(mm)	DF	Standard	Test
ΙΛV	DARFON F/N	DARFON F/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
50V	C3225X7S106□ GPS	C3225X7S106□ GP	1V , 1kHz	10	uF	±10%,±20%	2.50	±0.30	±0.30	10.0%	Embossed,1Kpcs	(II)
6.3V	C3225X7S107MCPS	C3225X7S107MCP	0.5V , 120Hz	100	uF	±20%	2.50	± 0.30	±0.30	10.0%	Embossed,1Kpcs	(II)*

 $<sup>\</sup>hfill\Box$  Tolerance Code: K=±10%, M=±20%; Special tolerance on the request.

<sup>(</sup>II)\* High temperature load life test are applicable in rated voltage \*100%. (II)/(II)\* are applied with derating voltage.

- X7T Series
- C1005X7T Series (EIA0402)

Ī	RV	DARFON P/N	DARFON P/N 2	Measuring Capacitance Available Thick. Tol		Tolerance	Tolerance(mm)		Standard	Test			
KV.	IXV	DAKI ON 17/N	DAIN ON F/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
	6.3V	C1005X7T474KCTS	C1005X7T474KCT	1V , 1kHz	470	nF	±10%	0.50	±0.10	±0.10	10.0%	Paper, 10Kpcs	(II)

#### • C1608X7T Series (EIA0603)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capacitance		Available Thick.		k. Tolerance(mm)		DF	Standard	Test
IXV	DAIN ON F/N	DAM ON F/M 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
10V	C1608X7T225MDTS	C1608X7T225MDT	1V , 1kHz	2.2	uF	±20%	0.80	±0.20	±0.20	10.0%	Paper, 4Kpcs	(II)
6.3V	C1608X7T106MCTS	C1608X7T106MCT	1V , 1kHz	10	uF	±20%	0.80	± 0.20	±0.20	10.0%	Paper, 4Kpcs	(II)*

### • C2012X7T Series (EIA0805)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capac	itance	Available	Thick.	Tolerance	e(mm)	DF	Standard	Test
IXV	DAIN ON F/N	DAIN ON F/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
10V	C2012X7T226MDPS	C2012X7T226MDP	0.5V , 120Hz	22	uF	±20%	1.25	± 0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)*
6.3V	C2012X7T226MCPS	C2012X7T226MCP	0.5V , 120Hz	22	uF	±20%	1.25	± 0.20	±0.20	10.0%	Embossed, 3Kpcs	(II)

#### • C3216X7T Series (EIA1206)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capacitance		Available	Thick.	Tolerance	(mm)	DF	Standard	Test
ΚV	DARFON P/N	DARFON P/N Z	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
10V	C3216X7T226 DPS	C3216X7T226 DP	0.5V , 120Hz	22	uF	±10%,±20%	1.6	±0.30	±0.30	10.0%	Embossed, 2Kpcs	(II)*

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(II)\* High temperature load life test are applicable in rated voltage \*100%. (II)/(II)\* are applied with derating voltage.

- X7U Series
- C3216X7U Series (EIA1206)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capac	itance	Available	Thick.	Toleran	ce(mm)	DF	Standard	Test
ΙΝΨ	DART ON F/N	DARI ON F/N 2	Condition	Value	Unit	Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
6.3V	C3216X7U476MCPS	C3216X7U476MCP	0.5V , 120Hz	47	uF	±20%	1.60	± 0.30	±0.30	15.0%	Embossed, 2Kpcs	(II)*
4V	C3216X7U107MBPS	C3216X7U107MBP	0.5V , 120Hz	100	uF	±20%	1.60	± 0.30	±0.30	15.0%	Embossed, 2Kpcs	(II)*

 $<sup>\</sup>hfill\Box$  Tolerance Code: K=±10%, M=±20%; Special tolerance on the request.

<sup>(</sup>II)\* High temperature load life test are applicable in rated voltage \*100%. (II)/(II)\* are applied with derating voltage.

## DARF⊕N

- X8R Series
- C1608X8R Series (EIA0603)

RV	DARFON P/N	DARFON P/N 2	Measuring	Capaci	tance	Available Tolerance	Thick.	Toleranc	e(mm)	DF	Standard	Test
ΚV	DARFON P/N	DARFON P/N 2	Condition	Value	Unit	Available Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
50V	C1608X8R104KGTS	C1608X8R104KGT	1V , 1kHz	100	nF	±10%	08	±0.15	±0.15	2.5%	Paper, 4Kpcs	(l)

### C2012X8R Series (EIA0805)

RV	DARFON P/N DARFON P/N 2		Measuring Capacitance		Available Tolerance	Thick.	k. Tolerance(mm)		DF	Standard	Test	
ΚV	DARFON F/N	DARFON F/N 2	Condition	Value	Unit	Available Tolerance	(mm)	L/W	Thick.	(max.)	Packing	Spec.
50V	C2012X8R104KGPS	C2012X8R104KGP	1V , 1kHz	100	nF	±10%	1.25	±0.15	±0.15	5.0%	Embossed, 3Kpcs	(l)



### • Test Spec.

### • General Purpose (I)

No	Ite	em		ication	Test Method			
			i	High dielectric constant type				
			NP0: -55 to 125 ℃	X5R: -55 to 85 ℃ X6S: -55 to 105 ℃	<del></del>			
1	Operation Tem	perature Range		X7R/X7S/X7T/X7U				
,	Operation rem	perature Kange		: -55 to 125 °C				
				X8R -55 to 150 ℃				
2	Rated <sup>v</sup>	Voltage	Shown in the table of "Part Nur	•	The rated voltage is defined as the maximum voltage, which may be applied continuously to the capacitor.			
3	Appea	arance	No defects or abnormalities.		Visual inspection			
4	Dimer	nsions	Within the specified dimension.		Using calipers			
			No defects or abnormalities.		No failure shall be observed when 250% of the rated voltage is			
5	Dielectric	Strength			applied between the terminations for 1 to 5 seconds. The charge and discharge current is less than 50mA.			
6	Insulation Res	sistance ( I.R.)	To apply rated voltage. I.R. $\geq 10 G\Omega$ or $R_i C_R \geq 500 \Omega$ -F (	whichever is smaller)	The insulation resistance shall be measured with a DC voltage not exceeding the rated voltage at $25^\circ\!\mathbb{C}$ and 75%RH max, and within 1 minute of charging.			
7	Canac	citance	Within the specified tolerance		The capacitance / D.F. shall be measured at 25°C at the			
	- Jupac		* X5R, X6S, X7R, X7S, X7T, X7	'U and X8R at 1000 hours Shown in the table of "Part	frequency and voltage shown in the table of "Part Number & Characteristic".			
			NP0: If C≦30pF, DF≦1/(400+20C),	Number & Characteristic"				
8	Q/Dissipation	Factor ( D.F.)	C in pF					
			If C >30pF, DF ≦0.1%.					
			Capacitance change	Capacitance change	Temperature compensation type:			
				X5R/X7R/X8R within ±15%	The capacitance value at 25°C and 85°C shall be			
			operating temperature range.	X6S/X7S within ±22%	measured and calculated from the formula given below.			
	Canacitanco	Temperature		X7T: -33% to + 22%	T.C.= $(C_{85}$ - $C_{25}$ / $C_{25}$ * $\Delta$ T*10 <sup>6</sup> (PPM $^{\circ}$ C)  2. High dielectric constant type:			
9		teristics		X7U:-56% to + 22%	The ranges of capacitance change compared with the 25			
					value over the temperature ranges shall be within the specified ranges.			
					Measurement Voltage : Less than 1.0Vrms			
			No removal of the terminations	or marking defect	(Refer to the electrical characteristics)  Apply a parallel force of 5N to a PCB mounted sample for			
10	Terminatio	n Strength	INO TETHOVALOT THE TETHINIALIONS	or marking delect.	10±1sec. *2N for 0603 (EIA 0201).			
			No cracking or marking defects Capacitance change:	shall occur at 1mm deflection.	Solder the capacitor to the test jig (glass epoxy boards) shown in Fig.a using a SAC305(Sn96.5Ag3.0Cu0.5) solder (then let sit for 24±2 hours for X5R, X6S, X7R, X7S, X7T, X7U and X8R).			
			NP0: within ±5% or ± 0.5pF. (w	nichever is larger)	Then apply a force in the direction shown in Fig.b. The			
			X5R, X6S, X7R, X7S, X7T, X7U	J, X8R within ±12.5%	soldering shall be done with the reflow method and shall be conducted with care so that the soldering is uniform and free of defects such as heat shock.			
			(Unit in mm)					
11	Deflection (Ber	nding Strength)	, b , d	4.5	<sup>20</sup> Pressurizing speed:1mm/sec.			
	2000 (20.	ramig calongar,	<del>                                   </del>	/ Size a b 0603 0.3 0.3	Pressurize			
				1005 0.4 1.				
				1608 1.0 3.0 2012 1.2 4.0	<del></del>			
			→ a ←	3216 2.2 5.				
			100	→ 4520 3.5 7.1	0 2.5 $\longleftrightarrow$ 45 $\longleftrightarrow$			
			T:1.6mm(0.8 mm for 0603 & 1 Fig. a.	005 size) 4532 3.5 7.	0 3.7 Fig.b.			
				e to be soldered evenly and	Immerse the test capacitor into a methanol solution containing			
12	Solderability of	of Termination	continuously.		rosin for 3 to 5 seconds, preheat it 150 to 180℃ for 2 to 3 minutes and immerse it into SAC305(Sn96.5Ag3.0Cu0.5)			
					solder of 245 $\pm$ 5°C for 3 $\pm$ 1seconds.			
		Appearance	No marking defects	I	*Preheat the capacitor at 120 to 150°C for 1 minute.  Immerse the capacitor in a SAC305(Sn96.5Ag3.0Cu0.5)			
		Cap. Change	NP0 within ±2.5% or 0.25pF (whichever is larger)	X5R/X6S/X7R/X7S/X7T/X7U/ X8R within ±7.5%	solder solution at 270±5°C for 10±1 seconds. Let sit at room			
			If C≦30pF, DF≦1/(400+20C)	To satisfy the specified initial	temperature for 24±2 hours, then measure.			
13	Resistance to	Q/D.F.	If C >30pF, DF ≦0.1%	spec.	* Preheat 150 to 200°C for size ≥ 3216.			
	Soldering Heat		I.R. $\ge$ 10,000MΩ or R <sub>i</sub> C <sub>R</sub> $\ge$	I.R. $\ge$ 10,000MΩor R <sub>i</sub> C <sub>R</sub> $\ge$				
			1.R. $\ge$ 10,000ΜΩ of R <sub>i</sub> C <sub>R</sub> $\ge$ 500Ω-F.	1.R. $\leq$ 10,000ΜΩστ $R_i C_R \leq$ 500Ω-F.	*High dielectric constant type:			
		I.R.	(whichever is smaller)	(whichever is smaller)	Initial measurement : perform a heat treatment at 150+0/-10 $^{\circ}$ C for one hour and then let sit for 24±2 hours at room			
					temperature. Perform the initial measurement.			



No	lto	m	Specifi	cation	Test Method
No	Ite	m	Temp. compensation type	High dielectric constant type	rest Method
		Appearance	No marking defects		Solder the capacitor to supporting jig (Glass epoxy board) and
		Cap. Change	NP0 within ±2.5% or 0.25pF (whichever is larger)	X5R/X6S/X7R/X7S/X7T/X8R within ±7.5% X7U within ±30%	perform the five cycles according to the four heat treatments listed in the following table. Let sit for 24±2hrs at room
14	Temperature cycle	Q/D.F.	If C ≤ 30pF, DF ≤ 1/(400+20C) If C > 30pF, DF ≤ 0.1%	To satisfy the specified initial spec.	temperature, then measure.  Step 1: Minimum operating temperature 30±3min  Step 2: Room temperature 2~3 min
	(Thermal shock)	I.R.	I.R. $\geq$ 10G $\Omega$ or R <sub>i</sub> C <sub>R</sub> $\geq$ 500 $\Omega$ -F. (whichever is smaller)	l.R. $\geq 10G\Omega$ or $R_iC_R \geq$ 500 $\Omega$ -F. (whichever is smaller)	Step 3: Maximum operating temperature 30±3min Step 4: Room temperature 2~3min *High dielectric constant type: Initial measurement: perform a heat treatment at 150±10°C for one hour and then let sit for 24±2 hours at room temp. Perform the initial measurement.
		Appearance	No marking defects		Apply the rated voltage at 40±2℃ and 90 to 95% humidity for
		Cap. Change	NP0 within ±7.5% or 0.75pF (whichever is larger)	X5R/X6S/X7R/X7S/X7T/X7U /X8R within ±12.5%	500±12 hours. The charge / discharge current is less than 50mA.
		Q/D.F.	If C>30pF, DF $\leq$ 0.5% If C $\leq$ 30pF,DF $\leq$ 1/(100+10xC/3) C in pF	X5R/X6S/X7R/X7S/X7T/X7U /X8R 200% max of initial spec	[Temperature compensation type] Remove and let sit for 24±2 hours at room temperature, then measure.
15	Humidity load	LR.	I.R. $\ge 500$ MΩ or $R_iC_R \ge 25 \Omega - F.$ (whichever is smaller)	L.R. $\geq 500 M \Omega$ or $R_i C_R \geq 25 \Omega \text{-F.}$ (whichever is smaller)	[High dielectric constant type] *Initial measurement Perform a heat treatment at 150+0/-10°C for one hour and then let sit for 24±2 hours at room temperature. Perform the initial measurement. *Measurement after test Perform a heat treatment and then let sit for 24±2 hours at room temperature, then measure.
		Appearance	No marking defects		Apply 200% of the rated voltage for 1000±12 hours at the
		Cap. Change	NP0 within ±7.5% or 0.75pF (whichever is larger)	X5R/X6S/X7R/X7S/X7T/X7U /X8R within ±12.5%	maximum operating temperature $\pm$ $3^\circ\!\mathbb{C}$ . The charge / discharge current is less than 50mA.
16	High temperature	Q/D.F.	If C>30pF, DF $\leq$ 0.3% If 10pF <c<math>\leq30pF, DF<math>\leq</math>1/(275+5xC/2) If C<math>\leq</math>10pF, DF<math>\leq</math>1/(200+10C),</c<math>	X5R/X6S/X7R/X7S/X7T/X7U /X8R 200% max of initial spec.	[Temperature compensation type] Remove and let sit for 24±2 hours at room temperature, then measure.  [High dielectric constant type]
	load life test		C in pF  More than 1GΩ or	More than 1GΩ or	*Initial measurement  Perform a heat treatment at 150+0/-10°C for one hour and then
		I.R.	More than 1G $\Omega$ or R <sub>1</sub> C <sub>r</sub> $\ge$ 50 $\Omega$ -F (whichever is less.)		let sit for 24±2 hours at room temperature.  Perform the initial measurement.  *Measurement after test
					Perform a heat treatment and then let sit for 24±2 hours at room temperature, then measure.



### General Purpose (II)

No	lte	em		Specification		Test Method			
1	Operation Tem	perature Range		55 to 105 ℃ 7T/X7U: -55 to 125 ℃					
2	Rated <sup>1</sup>	Voltage	Shown in th	ne table of "Part Number & Char	racteristic"	The rated voltage is defined as the maximum voltage, which may be applied continuously to the capacitor.			
3	Appea	arance	No defects	or abnormalities.		sual inspection			
4	Dimer	nsions	Within the s	specified dimension.		Using calipers			
5	Dielectric	Strength	No defects or abnormalities.			o failure shall be observed when 250% of etween the terminations for 1 to 5 seconds arrent is less than 50mA.			
6	Insulation Re	sistance ( I.R.)	R/C <sub>R</sub> $\geq$ 50Ω-F  High cap:  Series Cap Range Insulation Resistance  X5R/X6S 0603 $\geq$ 2.2uF; 1005 $\geq$ 22uF X6T/X7R 1608 $\geq$ 47uF; 2012 $\geq$ 100uF X7S 3216 $\geq$ 100uF; 3225 $\geq$ 100uF			The insulation resistance shall be measured with a DC voltage not exceeding the rated voltage at 25°C and 75%RH max, and within 1 minute of charging, provided the charge/discharge current is less that 50 mA.			
7		itance	Within the specified tolerance  * X5R, X6S,X6T, X7R, X7S, X7T, X7U and X8R at 1000 hour			ne capacitance / D.F. shall be measured at ltage shown in the table of "Part Number & Ch	, ,		
8	Q/Dissipation	Factor ( D.F.)	Shown in the table of "Part Number & Characteristic"						
9	Capacitance Charact	Temperature teristics	X7U: -56%	8R within ±15% , X6S/X7S with	iin ±22%	The ranges of capacitance change compared with the 25°C value over the temperature ranges shall be within the specified ranges.  Measurement Voltage: Less than 1.0Vrms (Refer to the electrical characteristics)			
10	Terminatio	n Strength	No removal of the terminations or marking defect.			oply a parallel force of 5N to a PCB mounted s 603 (EIA 0201).	ample for 10±1sec. *2N for		
			Capacitano	g or marking defects shall occur e change: (6T, X7R, X7S, X7T, X7U, X8R		Solder the capacitor to the test jig (glass epoxy boards) shown in Fig.a using s SAC305(Sn96.5Ag3.0Cu0.5) solder (then let sit for 24±2 hours for X5R, X6S, X7R, X7S, X7T, X7U and X8R).  Then apply a force in the direction shown in Fig.b. The soldering shall be done with the reflow method and shall be conducted with care so that the soldering is uniform and free of defects such as heat shock.			
11	Deflection (Ber	nding Strength)	(Unit in mm	0.8 mm for 0603 & 1005 size)	Size         a           0603         0.3           1005         0.4           1608         1.0           2012         1.2           3216         2.2           4520         3.5           4532         3.5	0.3 0.5 1.2 1.65	ring speed:1mm/sec. ze P1 ↓ ↑ Flexure:1mm		
12	Solderability o	of Termination	90% of th continuousl		oldered evenly a	nmerse the test capacitor into a methanol solu econds, preheat it 150 to 180°C for 2 to 3 AC305(Sn96.5Ag3.0Cu0.5) solder of 245 ± 5°C	minutes and immerse it into		
		Appearance	No marking	defects	<u> </u>	reheat the capacitor at 120 to 150°C for 1 min			
		Cap. Change		6T/X7R/X7S/X7T/X7U/X8R with	nin ±7.5%	nmerse the capacitor in a SAC305(Sn96.5Ag3. 70±5℃ for 10±1 seconds. Let sit at room temp	,		
13	13 Resistance to Soldering Heat		To satisfy the specified initial spec. $R_i C_R \! \ge \! 50 \Omega \text{-F}.$ High cap:			270±5°C for 10±1 seconds. Let sit at room temperature for 24±2 hours, then measure.  * Preheat 150 to 200°C for size ≥ 3216.  * Initial measurement: perform a heat treatment at 150+0/-10°C for one hou and then let sit for 24±2 hours at room temperature. Perform the initial measurement.			
		I.R.	Series X5R/X6S X6T/X7R X7S	Cap Range 0603≥2.2uF; 1005≥22uF 1608≥47uF; 2012≥100uF 3216≥100uF; 3225≥100uF	Insulation Resistance RiCR≧20Ω-F				

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No	Ite	m		Specification		Test Method
		Appearance	No marking	defects		Solder the capacitor to supporting jig (Glass epoxy board) and perform th
		Cap. Change	X5R/X6S/X X7U within	6T/X7R/X7S/X7T/X8R within ±7	7.5%	five cycles according to the four heat treatments listed in the following table. Let sit for 24±2hrs at room temperature, then measure.
		Q/D.F.	To satisfy th	e specified initial spec.		Step 1: Minimum operating temperature 30±3min
14	Temperature cycle (Thermal shock)		R <sub>i</sub> C <sub>R</sub> ≥50Ω-	F.		Step 2: Room temperature 2~3 min Step 3: Maximum operating temperature 30±3min
		I.R.	High cap: Series	Cap Range	Insulation	Step 4: Room temperature 2~3min  * Initial measurement: perform a heat treatment at 150±10°C for one ho
			X5R/X6S X6T/X7R X7S	0603≥2.2uF; 1005≥22uF 1608≥47uF; 2012≥100uF 3216≥100uF; 3225≥100uF	Resistance RiCR≧20Ω-F	and then let sit for 24±2 hours at room temp. Perform the init measurement.
		Appearance	No marking	defects		Apply the rated voltage at 40±2℃ and 90 to 95% humidity for 500±12
		Cap. Change	X5R/X6S/X	6T/X7R/X7S/X7T/X7U/X8R with	hin ±12.5%	hours. The charge / discharge current is less than 50mA.
		Q/D.F.	X5R/X6S/X spec.	6T/X7R/X7S/X7T/X7U/X8R 20	00% max of in	nitial *Initial measurement
			$R_iC_R \ge 12.5$	Ω-F.		Perform a heat treatment at 150+0/-10°C for one hour and then let sit for 24±2 hours at room temperature.
						Perform the initial measurement.
15	Humidity load	nidity load	Series	Cap Range	Insulation Resistance	*Measurement after test  Perform a heat treatment and then let sit for 24±2 hours at room
			X5R	0603≥1uF; 1005≥2.2uF 1608≥4.7uF; 2012≥10uF 3216≥22uF; 3225≥47uF	RiCR≧5Ω-F	temperature, then measure.
			X6S/X6T X7R/X7S	0603≥0.1uF; 1005≥0.47uF 1608≥1uF; 2012≥2.2uF 3216≥4.7uF; 3225≥10uF	RICR≦3Ω-F	
			X5R/X6S X6T/X7R X7S	0603≥2.2uF; 1005≥22uF 1608≥47uF; 2012≥100uF 3216≥100uF; 3225≥100uF	RiCR≧1Ω-F	
		Appearance	No marking	defects		Apply 150% of the rated voltage for 1000±12 hours at the maximum
		Cap. Change	X5R/X6S/X	6T/X7R/X7S/X7T/X7U/X8R with	hin ±12.5%	operating temperature ± 3℃. The charge / discharge current is less than 50mA.
		D.F.	X5R/X6S/X spec	6T/X7R/X7S/X7T/X7U/X8R 20	00% max of in	nitial
			$R_iC_r \ge 25\Omega$ -	F		*Initial measurement  Perform a heat treatment at 150+0/-10°C for one hour and then let sit for
			High cap:			24±2 hours at room temperature.  — Perform the initial measurement.
16	High temperature		Series	Cap Range	Insulation Resistance	*Measurement after test
	load life test	I.R.		0603≥1uF; 1005≥2.2uF 1608≥4.7uF; 2012≥10uF 3216≥22uF; 3225≥47uF		Perform a heat treatment and then let sit for 24±2 hours at room temperature, then measure.  * Some of the parts are applicable in rated voltage *100%. Please refer to
			X6S/X6T X7R/X7S	0603≥0.1uF; 1005≥0.47uF 1608≥1uF; 2012≥2.2uF 3216≥4.7uF; 3225≥10uF	RiCR≧10Ω-F	"Part Number & Characteristic" with (II)* labeled in "Test Spec."
			3216≥4.701 , 3223≥1001 X5R/X6S		RiCR≧2Ω-F	1

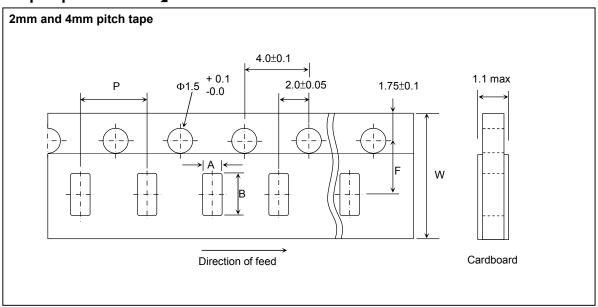


### **Package**

#### • Tape and reel packaging

Tape and reel packaging is currently the most promising system for high-speed production. A typical 180mm (7 inch) diameter reel contains 1,500 to 15,000 capacitors, 250mm (10 inch) contains 10,000 capacitors, and 330mm (13 inch) contains 10,000 to 50,000 capacitors. Three standard sizes are available in taped and reeled package either with paper carrier tapes or embossed tapes.

#### [Paper tape specifications]

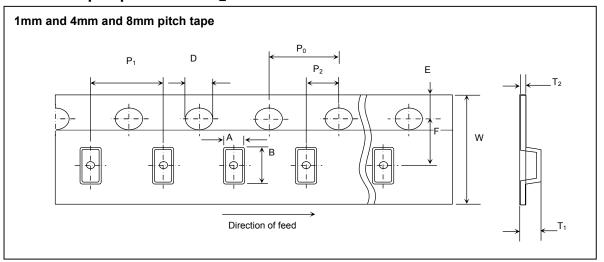


					PRO	DUCT	SIZE C	ODE							
SYMBOL	C0603(0201)		L.UNU.5(UZUT)		C1005(0402) Standard		<b>C1005(0402)</b> Special (1)		<b>C1005(0402)</b> Special (2)		C1005(0402) Special (3)		C1005(0402) Special (4)		UNIT
	SIZE	TOL.	SIZE	TOL.	SIZE	TOL.	SIZE	TOL.	SIZE	TOL.	SIZE	TOL.			
Α	0.38	± 0.04	0.65	± 0.10	0.70	± 0.10	0.72	± 0.10	0.80	± 0.10	0.90	± 0.10	mm		
В	0.68	± 0.04	1.15	± 0.10	1.19	± 0.10	1.25	± 0.10	1.35	± 0.10	1.45	± 0.10	mm		
F	3.5	± 0.05	3.5	± 0.05	3.5	± 0.05	3.5	± 0.05	3.5	± 0.05	3.5	± 0.05	mm		
Р	2	± 0.10	2	± 0.10	2	± 0.10	2	± 0.10	2	± 0.10	2	± 0.10	mm		
W	8	± 0.20	8	± 0.20	8	± 0.20	8	± 0.20	8	± 0.20	8	± 0.20	mm		

				PRC	DUCT S	IZE COD	E (EIA)					
SYMBOL	C1608(0603) Standard		MBOI ` ´		C1608 (0603) C1608 (0603) Special (1) Special (2/3)		-	C2012 (0805)		C3216 (1206)		UNIT
	SIZE	TOL.	SIZE	TOL.	SIZE	TOL.	SIZE	TOL.	SIZE	TOL.		
Α	1.0	±0.2	1.0	±0.2	1.1	±0.2	1.5	±0.2	1.9	±0.2	mm	
В	1.8	±0.2	1.8	±0.2	1.9	±0.2	2.3	±0.2	3.6	±0.2	mm	
F	3.5	±0.05	3.5	±0.05	3.5	±0.05	3.5	±0.05	3.5	±0.05	mm	
Р	4	±0.1	4	±0.1	4	±0.1	4	±0.1	4	±0.1	mm	
W	8	±0.2	8	±0.2	8	±0.2	8	±0.2	8	±0.2	mm	

## DARF⊕N

### [Embossed tape specifications]

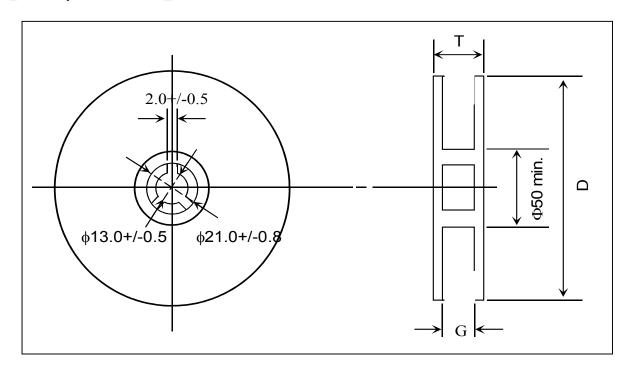


For W= 8mm:  $T_1$ =2.5mm max. For W= 12mm:  $T_1$ = 4.5mm max.

		PRODUCT SIZE CODE											
DIMENSION (mm)		4 mm	tape		8 mm tape								
(11111)	1608 (0603)	2012 (0805)	3216 (1206)	3225 (1210)	4520 (1808)	4532 (1812)							
P <sub>1</sub>	4±0.1	4±0.1	4±0.1	4±0.1	8±0.1	8±0.1							
Po	4±0.1	4±0.1	4±0.1	4±0.1	4±0.1	4±0.1							
P <sub>2</sub>	2±0.05	2±0.05	2±0.05	2±0.05	2±0.05	2±0.05							
Α	1.2±0.2	1.45±0.2	1.9±0.2	2.8±0.2	2.3±0.2	3.6±0.2							
В	2.0±0.2	2.3±0.2	3.5±0.2	3.6±0.2	4.9±0.2	4.9±0.2							
W	8±0.3	8±0.2	8±0.2	8±0.2	12±0.2	12±0.2							
E	1.75±0.1	1.75±0.1	1.75±0.1	1.75±0.1	1.75±0.1	1.75±0.1							
F	3.5±0.05	3.5±0.05	3.5±0.05	3.5±0.05	5.5±0.05	5.5±0.05							
D	1.5 (+0.1/-0.0)	1.5 (+0.1/-0.0)	1.5 (+0.1/-0.0)	1.5 (+0.1/-0.0)	1.5 (+0.1/-0.0)	1.5 (+0.1/-0.0)							
T <sub>1</sub>	1.4 max.	2.5 max.	2.5 max.	2.5 max.	4.5 max.	4.5 max.							
T <sub>2</sub>	0.25±0.1	0.30±0.1	0.30±0.1	0.30±0.1	0.30±0.1	0.30±0.1							



### [Reel specifications]



TAPE WIDTH (mm)	G (mm)	T max. (mm)	D (mm)
4	5.0 ± 1.5	8.0	180
8	10.0 ± 1.5	14.5	180
8	10.0 ± 1.5	14.5	250
8	10.0 ± 1.5	14.5	330
12	14.0 ± 1.5	18.5	180



### [Thickness and Packing Amount]

Thickness		Amount per reel				
	I nickne	<b>!SS</b>	180 mm (7")		330 mm (13")	
Code	Spec.(mm)	Size (EIA)	Paper	Embossed	Paper	Embossed
Z	0.20	0402 (01005)	20K	40K <sup>#1</sup>		
Α	0.30	0603 (0201)	15K		50K	
A		1005 (0402)	15K		50K	
В	0.50	1005 (0402)	10K		50K	
Q	0.45	1005 (0402)	10K		50K	
y	0.45	1608 (0603)	4K		15K	
С	0.60	2012 (0805)	4K		15K	
)	0.00	3216 (1206)	4K		15K	
		1608 (0603)	4K	4K	15K	
D	0.80	2012 (0805)	4K		15K	
		3216 (1206)	4K		15K	
		2012 (0805)	4K		15K	
Е	0.85	3216 (1206)	4K		15K	
	0.65	3225 (1210)		3K		10K
		4532 (1812)		1K		
	0.95	2012 (0805)		3K		
l	0.95	3216 (1206)		3K		
F	1.15	3216 (1206)		3K		10K
ı	1.15	4520 (1808)		3K		
		2012 (0805)		2K/3K		10K
		3216 (1206)		3K		10K
G	1.25	3225 (1210)		3K		
G	1.20	4520 (1808)		2K/3K		
		4532 (1812)		1K		
		3225 (1210)		3K		
		3216 (1206)		2K		
L	1.60	3225 (1210)		2K		
_	L 1.00	4520 (1808)		2K		
		4532 (1812)		1K		
		3216 (1206)		2K/3K		
N	2.00	3225 (1210)		1K/2K		
IN	2.00	4520 (1808)		1K		
		4532 (1812)		1K		
Р	2.50	3225 (1210)		500pcs/1K		

#1: 4mm width 1mm pitch Embossed Taping

### [Packing Rule]

EIA SIZE	Tape type	Reel Size	Max Reels/Box
01005	Emboss	7"	16
01005	Paper	7"	10
0201	Paper	7"	10
0402	Paper	7"	10
0603	Paper/Emboss	7"	10
0805	Paper/Emboss	7"	10
1206	Paper/Emboss	7"	10
1210	Emboss	7"	10
1808	Emboss	7"	10
1812	Emboss	7"	10

<sup>\*</sup>Maximum 60 reels in one carton.



# Others [Storage]

- 1. The chip capacitors shall be packaged in carrier tapes or bulk cases.
- 2. Keep storage place temperatures from  $+5^{\circ}$ °C to  $+35^{\circ}$ °C, humidity from 45 to 70% RH.
- 3. The storage atmosphere must be free of gas containing sulfur and chlorine. Also, avoid exposing the product to saline moisture. If the product is exposed to such atmospheres, the terminations will oxidize and solderability will be affected.
- 4. The solderability is assured for 12 months from our final inspection date if the above storage condition is followed.

#### [Circuit Design]

- 1. Once application and assembly environments have been checked, the capacitor may be used in conformance with the rating and performance, which are provided in both the catalog and the specifications. Exceeding the specifications listed may result in inferior performance. It may also cause a short, open, smoking, or flaming to occur, etc.
- 2. Please use the capacitors in conformance with the operating temperature provided in both the catalog and the specifications. Be especially cautious not to exceed the maximum temperature. In the situation the maximum temperature set forth in both the catalog and specifications is exceeded, the capacitor's insulation resistance may deteriorate, power may suddenly surge and short-circuit may occur. The loss of capacitance will occur, and may self-heat due to equivalent series resistance when alternating electric current is passed through. As this effect becomes critical in high frequency circuits, please exercise with caution. When using the capacitor in a (self-heating) circuit, please make sure the surface of the capacitor remains under the maximum temperature for usage. Also, please make certain temperature rise remain below 20°C.
- 3. Please keep voltage under the rated voltage, which is applied to the capacitor. Also, please make certain the peak voltage remains below the rated voltage when AC voltage is super-imposed to the DC voltage. In the situation where AC or pulse voltage is employed, ensure average peak voltage does not exceed the rated voltage. Exceeding the rated voltage provided in both catalog and specifications may lead to defective withstanding voltage or, in worse case situations, may cause the capacitor to burn out.
- 4. It's is a common phenomenon of high-dielectric products to have a deteriorated amount of static electricity due to the application of DC voltage.

#### [Handling]

Chip capacitors should be handled with care to avoid contamination or damage. The use of vacuum pick-up or plastic tweezers is recommended for manual placement. Tape and reeled packages are suitable for automatic pick and placement machine.

#### [Flux]

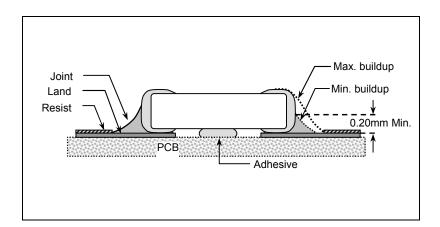
- An excessive amount of flux or too rapid temperature rise can causes solvent burst, solder can generate a large quantity of gas. The gas can spreads small solder particles to cause solder balling effect or bridging problem.
- 2. Flux containing too high of a percentage of halide may cause corrosion of termination unless sufficient cleaning is applied.
- 3. Use rosin-type flux. Highly acidic flux (halide content less than 0.2wt%) is not recommended.
- 4. The water soluble flux causes deteriorated insulation resistance between outer terminations unless sufficiently cleaned.

#### [Component Spacing]

For wave soldering components, the spacing must be sufficient far apart to prevent bridging or shadowing. This is not so important for reflow process but enough space for rework should be considered. The suggested spacing for reflow soldering and wave soldering is 0.5mm and 1.0mm, respectively.

#### [Solder Fillet]

Too much solder amount may increase solder stress and cause crack risk. Insufficient solder amount may reduce adhesive Strength and cause parts falling off PCB. When soldering, confirm that the solder is placed over 0.2mm of the surface of the terminations.

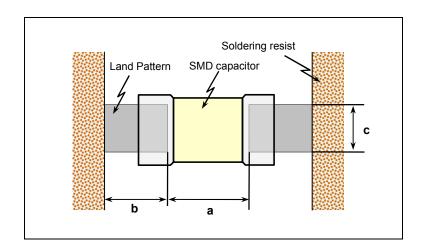




#### [Recommended Land Pattern Dimensions]

When mounting the capacitor to substrate, it's important to consider that the amount of solder (size of fillet) used has a direct effect upon the capacitor once it's mounted.

- 1. The greater the amount of solder, the greater the stress to the elements, as this may cause the substrate to break or crack.
- 2. In the situation where two or more devices are mounted onto a common land, separate the device into exclusive pads by using soldering resist.
- 3. Land width equal to or less than component. It is permissible to reduce land width to 80% of component width.



Size mm (EIA)	L x W (mm) (Dimension tolerance)	a (mm)	b (mm)	c (mm)
0402 (01005)	0.4*0.2	0.16 to 0.20	0.12 to 0.18	0.20 to 0.23
0603 (0201)	0.6*0.3 (within±0.03)	0.2 to 0.35	0.2 to 0.3	0.2 to 0.4
0003 (0201)	0.6*0.3 (±0.05/±0.09)	0.2 to 0.35	0.2 to 0.35	0.25 to 0.4
1005 (0402)	1.0*0.5 (within±0.10)	0.3 to 0.5	0.35 to 0.45	0.4 to 0.6
1003 (0402)	1.0*0.5 (±0.15/±0.20)	0.4 to 0.6	0.4 to 0.5	0.5 to 0.7
1608 (0603)	1.6*0.8 (within±0.10)	0.7 to 1.0	0.6 to 0.8	0.7 to 0.8
1000 (0003)	1.6*0.8 (±0.15/±0.20/±0.25)	0.8 to 1.1	0.7 to 0.8	0.8 to 1.0
2012 (0805)	2.0*1.25	1.0 to 1.4	0.7 to 0.9	1.2 to 1.4
3216 (1206)	3.2*1.6 (within±0.20)	1.8 to 2.4	0.9 to 1.2	1.5 to 1.9
3216 (1206)	3.2*1.6 (within±0.30)	1.9 to 2.5	1.0 to 1.3	1.7 to 2.0
3225 (1210)	3.2*2.5	1.8 to 2.5	1.0 to 1.2	2.0 to 2.5
4520 (1808)	4.5*2.0	3.2 to 3.8	1.2 to 1.4	1.7 to 2.0
4532 (1812)	4.5*3.2	3.0 to 3.5	1.4 to 1.6	2.7 to 3.5

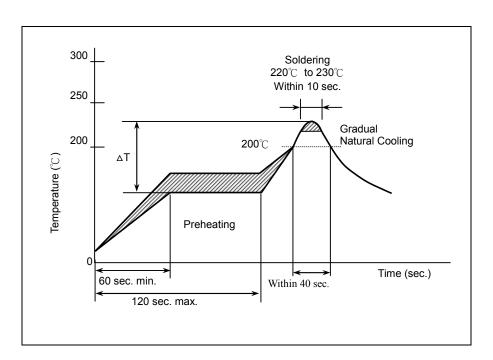


#### [Resin Mold]

If a large amount of resin is used for molding the chip, cracks may occur due to contraction stress during curing. To avoid such cracks, use a low shrinkage resin. The insulation resistance of the chip will degrade due to moisture absorption. Use a low moisture absorption resin. Check carefully that the resin does not generate a decomposition gas or reaction gas during the curing process or during normal storage. Such gases may crack the chip capacitor or damage the device itself.

#### [Soldering Profile for SMT Process with SnPb Solder Paste]

#### **Reflow Soldering**

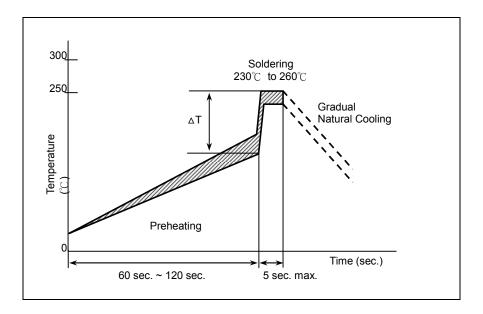


The difference between solder and chip surface should be controlled as following table. The rate of preheat should not exceed  $4^{\circ}$ C/sec and a target of  $2^{\circ}$ C/sec is preferred.

Chip Size	3216 and smaller	3225 and above
Preheating	∆T≦150°C	∆T≦130°C

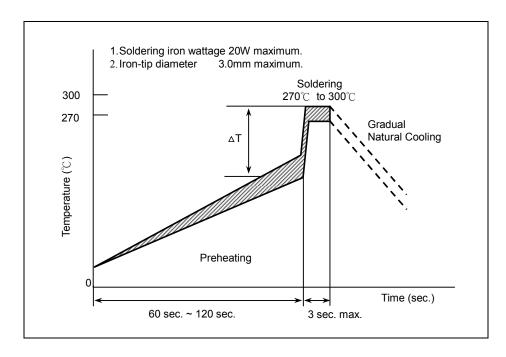


#### **Wave Soldering**



Chip Size	1608/2012/3216	3225 and above
Preheating	<u></u> ΔT≦150℃	-

#### **Soldering Iron**

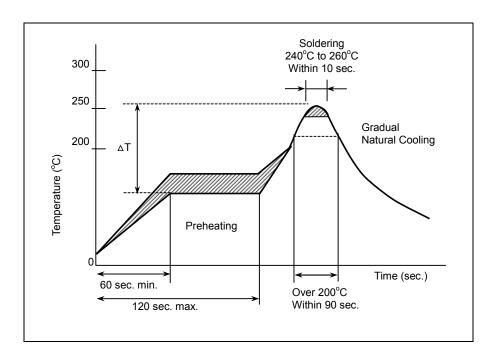


Chip Size	3216 and smaller	3225 and above
Preheating	∆T≦190°C	∆T≦130°C



#### [Soldering]

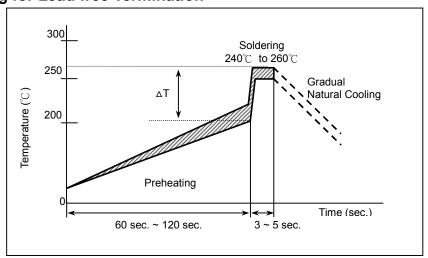
#### **Reflow Soldering for Lead free Termination**



The difference between solder and chip surface should be controlled as following table. The rate of preheat should not exceed  $4^{\circ}$ C/sec and a target of  $2^{\circ}$ C/sec is preferred.

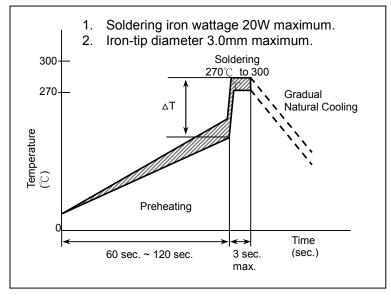
Chip Size	3216 and smaller	3225 and above
Preheating	∆T≦150°C	∆T≦130°C

#### Flow Soldering for Lead free Termination



Chip Size	1608/2012/3216	3225 and above
Preheating	∆T≦150°C	-

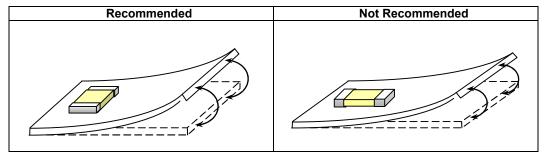
#### **Soldering Iron**



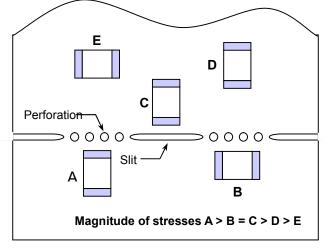
Chip Size	3216 and smaller	3225 and above
Preheating	∆T≦190°C	∆T≦130°C

#### [Chip Layout and Breaking PCB]

1. To layout the SMD capacitors for reducing bend stress from board deflection of PCB. The following are examples of Hood and bad layout.

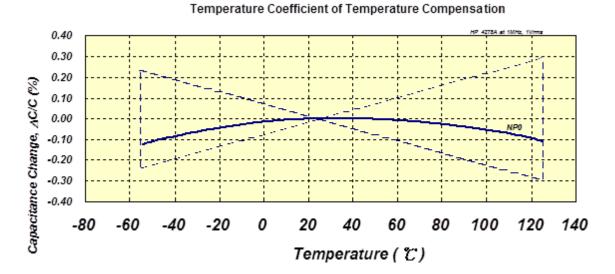


2. When breaking PCB, the layout should be noted that the mechanical stresses are depending on the position of capacitors. The following example shows recommendation for better design.



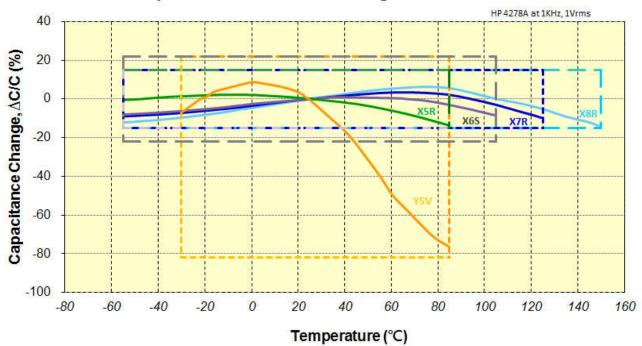
#### **[Temperature Coefficient]**

• Class 1 (Temperature Compensation series)

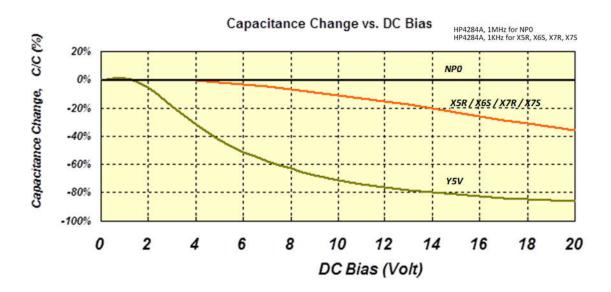


Class 2 (High Dielectric Constant Series)



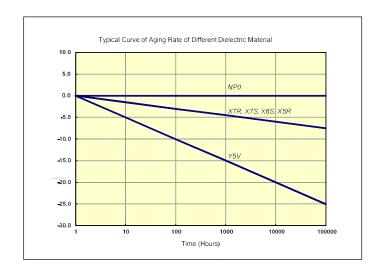


#### **[DC Voltage Coefficient]**



#### [Aging Rate]

The capacitance and dissipation factor of class 2 capacitors decreases with time. It is known as 'aging' that follows a logarithmic low and expressed in terms of an aging constant. Aging is caused by a gradual re-alignment of the crystalline structure of the ceramic. The aging constant is defined as the percentage loss of capacitance at a 'time decade'. The law of capacitance aging is expressed as following equation:



$$C_{t2} = C_{t1} \times (1 - k \times \log_{10}(t_2/t_1))$$

C<sub>t1</sub>: Capacitance after t1 hours of start aging.

Ct2: Capacitance after t2 hours of start aging.

k: aging constant (capacitance decrease per decade)

t1, t2: time in hours from start of aging.

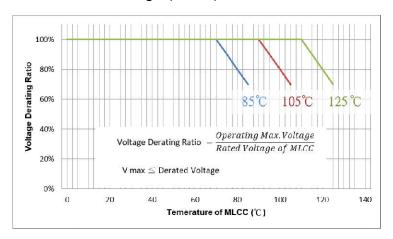
A typical curve of aging rate is shown in following figure.

When heating the capacitors above Curie temperature  $(130^{\circ}\text{C} \sim 150^{\circ}\text{C})$  the capacitance can be re-new. So capacitance of class 2 capacitors will be complete de-aged by soldering process; subsequently a new aging process begins.

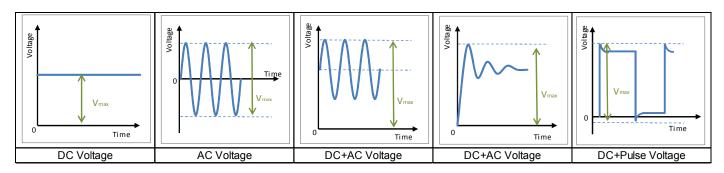
Because of aging, it is specified an age for measurement to meet the prescribed tolerance for class 2 capacitors. Normally, 1000 hours ( $t_2$ =1000 hrs) is defined.

#### [Voltage Derating & Applied Voltage]

The derated MLCC should be applied with the derating voltage. The "Temperature of MLCC" is the surface temperature of MLCC including self-heating effect. The maximum operating voltage of MLCC with reference to the maximum voltage (Vmax) is as shown in the following graph.



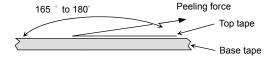
Cautions by types of voltage applied to MLCC · For DC voltage or DC+AC voltage, DC voltage or the maximum value of DC + AC voltage should not exceed the rated voltage of MLCC. · For AC voltage or pulse voltage, the peak-to-peak value of AC voltage or pulse voltage should not exceed the rated voltage of MLCC. · Abnormal voltage such as surge voltage, static electricity should not exceed the rated voltage of MLCC.



#### [Peeling Off Force]

Peeling off force: 0.1N to 1.0 N<sup>\*</sup> in the direction shown as below.

The peeling speed: 300±10 mm/min



- 1. The taped tape on reel is wound clockwise. The sprocket holes are to the right as the tape is pulled toward the user.
- 2. There are minimum 150 mm as the leader and minimum 40 mm empty tape as the tail is attached to the end of the tape.