General Specifications



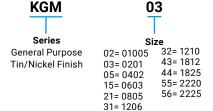


The X7R dielectric is the most popular of the intermediate EIA class II materials due to its relative temperature stability. While the capacitance change is non-linear, temperature variation is within ±15% from - 55°C to + 125°C.

Capacitance for X7R varies under the influence of electrical operating conditions such as voltage and frequency. X7R dielectric chip usage covers a broad spectrum of industrial applications where known changes in capacitance due to applied voltages are acceptable.

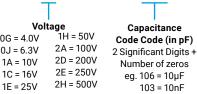
SpiCAT is an additional online resource that KAVX offers to help create engineering simulations. Please visit spicat. kyocera-avx.com for more information.

HOW TO ORDER









101 М Capacitance Tolerance J* = +/-5%K = +/- 10% M = +/-20%

*≤1µF only, contact factory for additional values

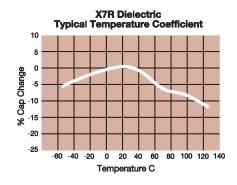


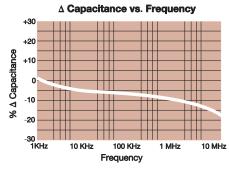


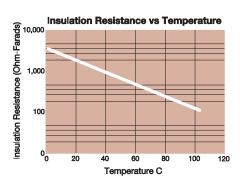
PACKAGING CODES

Code	EIA (inch)	IEC(mm)	7" Paper	7" Embossed	13" Paper	13"Embossed
02	01005	0402	Н			
03	0201	0603	Н		N	
05	0402	1005	Н		N	
15	0603	1608	Т		М	
21	0805	2012	Т	U	М	L
31	1206	3216	Т	U	М	L
32	1210	3225		U		L
43	1812	4532		V		S
44	1825	4564		V		S
55	2220	5750		V		S
56	2225	5763		V		S

^{*}Note: The thickness determines if packaging is paper or embossed.

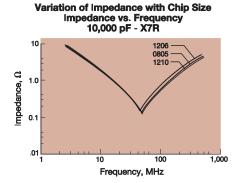


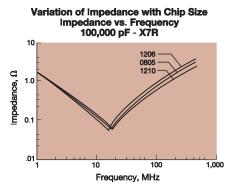




Impedance vs. Frequency 1,000 pF vs. 10,000 pF - X7R 0805 10.00 1,000 pF mpedance, Ω 100 1000 Frequency, MHz

variation of impedance with Cap Value





☑ KU□CER∃ | The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.



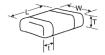


Pai	rameter/Test	X7R Specification Limits	Measuring Conditions (Complies with JIS C5101 / IEC60384)							
Operating	Temperature Range	-55°C to +125°C	Temperature Cycle Chamber							
C	apacitance	Within specified tolerance	Measure after heat treatment							
			Capacitance Frequency Volt							
			C≤10μF Frequency:1kHz±10%							
			Volt : 1.0±0.2Vrms *0.5±0.2Vrms							
Dissipat	tion Factor / Tanδ	Refer to https://spicat.kyocera-avx.com for	7011110-31211110 310201211110							
•		individual part number specification	C>10µF							
			Frequency: 120Hz±10%							
			Volt: 0.5±0.2Vrms							
			The charge and discharge current of the capacitor must not exceed 50mA. Apply the rated voltage for 1 minute, and measure it in normal tempera-							
Insula	tion Resistance	Refer to https://spicat.kyocera-avx.com for	ture and humidity. The charge and discharge current of the capacitor must							
moula	tion regionalise	individual part number specifiction	not exceed 50mA.							
			Charge device with 250% of rated voltage for 1-5 seconds, w/charge and							
Diele	ectric Strength	No breakdown or visual defects	discharge current limited to 50 mA (max)							
			Note: Charge device with 150% of rated voltage for 500V devices.							
Ben	ding Strength	No significant damage with 1mm bending	Glass epoxy PCB: Fulcrum spacing: 90mm, duration time 10 seconds.							
s	olderability	Solder coverage : 95% min.	Soaking condition Sn-3Ag-0.5Cu 245±5°C 3±0.5 sec.							
	Appearance	No problem observed	Take the initial value after heat treatment.							
	Capacitance Variation	≤ ±7.5%	Soak the sample in 260°C±5°C solder for 10±0.5 seconds and place in nor-							
	Dissipation Factor / Tanδ	Within specification	mal temperature and humidity, and measure after heat treatment.							
Resistance to	·	·	(Pre-heating conditions)							
Solder Heat	Insulation Resistance	Within specification	Order Temperature Time							
	\\\(\frac{1}{2} \\ \frac{1}{2} \\ \f		1 80 to 100°C 2 minutes 2 150 to 200°C 2 minutes							
	Withstanding Voltage / Dielectric Strength	Resist without problem	The charge and discharge current of the capacitor must not exceed 50mA							
	Dielectric Strength		for IR and withstanding voltage measurement.							
	Appearance	No visual defects	Take the initial value after heat treatment.							
	Capacitance Variation	≤ ±7.5%	(Cycle)							
	Dissipation Factor	Within specification	Room temperature (3 min.)—> Lowest operation temperature (30 min.)—>							
Thermal Shock	Insulation Resistance	Within specification	Room temperature (3 min.)—>							
Thermal Chock			Highest operation temperature(30 min.)							
	Withstanding Voltage /	D = -i = 4 i 4b = 4 b	After 5 cycles, measure after heat treatment.							
	Dielectric Strength	Resist without problem	The charge and discharge current of the capacitor must not exceed 50mA							
		N : 116 :	for IR and withstanding voltage measurement.							
	Appearance	No visual defects	Take the initial value after heat treatment. After applying *1.5 the rated voltage at the highest operation							
	Capacitance Variation	≤ ±12.5%	temperature for 1000+12/ -0 hours, and measure the sample after heat							
Load Life	Dissipation Factor / Tanδ	≤ Initial Value x 2.0 (See Above)	treatment in normal temperature and humidity.							
Loau Lile		0 1000140 50140 5 1:1	The charge and discharge current of the capacitor must not exceed							
	Insulation Resistance	Over 1000MΩ or 50MΩ · μF, whichever is less. *Exceptions Listed Below	50mA for IR measurement.							
		Exceptions Listed Below	*Apply 1.0 times when the rated voltage is 4V or less. Applied voltages for respective products are indicated in the chart below.							
	Appearance	No visual defects	Take the initial value after heat treatment.							
	Capacitance Variation	≤ ±12.5%	After applying rated voltage for 500+12/ -0 hours in the condition of							
Load	Dissipation Factor / Tanδ	Within specification	40°C ± 2°C and 90 to 95%RH, and place in normal temperature and							
Humidity	1 10 5	Over $1000M\Omega$ or $50M\Omega \cdot \mu$ F, whichever is less.	humid- ity, then measure the sample after heat treatment.							
	Insulation Resistance	*Exceptions Listed Below	The charge and discharge current of the capacitor must not exceed 50mA for IR measurement.							
Δ	ppearance	No problem observed	Microscope							
	••	·	Apply a sideward force of 500g (5N) to a PCB-mounted sample. note :							
i ermi	nation Strength	No problem observed	2N for 0201 size, and 1N for 01005 size.							
	Appearance	No problem observed	Take the initial value after heat treatment.							
	Capacitance	Within tolerance	Vibration frequency: 10 to 55 (Hz) Amplitude: 1.5mm							
Vibration			Sweeping condition: 10 —> 55 —> 10Hz/ 1 minute in X, Y and Z							
	Tanδ	Within tolerance	directions: 2 hours each, 6 hours in total, and place in normal temperature							
			and humidity, then measure the sample after heat treatment.							
He	at Treatment	Expose sample in the temperature of 150+0/ -1	-10°C for 1 hour and leave the sample in normal temperature and humidity for							
116		24±2 hours.								

Voltage to be applied in the High Temperature Load (Applied voltage is the multiple of the rated voltage)

Capacitance Range





SIZE		01005			0201			0402						0603						0805							1206												
Soldering		Reflow Only		Ref	low (Only			F	Reflow	//Wa	/e				R	eflow	/Wa	ve						Refl	ow/V	Vave				Reflow/Wave								
Packaging		All Paper		A	II Pap	er				All F	aper					Pap	er/Er	mbos	sed					F	aper	/Emb	osse	d					F	aper.	/Emb	osse	d		
I (I) I ength .	nm	0.40 ± 0.02			0 ± 0					1.00							1.60 ±									1 ± 0									0 ± 0				
· · · · (II	-4	(0.016 ± 0.0008)			24 ± 0					.040						<u> </u>	.063 ±								(0.07						(0.126 ± 0.012) 1.60 ± 0.30								
I W) Width .	nm in.)	0.20 ± 0.02 (0.008 ± 0.0008)			30 ± 0	1.03 1.001)				0.50							0.81 ±									5 ± 0					(0.063 ± 0.012)								
m	nm	0.10± 0.04			5 ± 0					0.25				(0.032 ± 0.006) 0.35 ± 0.15								(0.049 ± 0.008) 0.50 ± 0.25							(0.063 ± 0.012) 0.50 ± 0.25										
I (T) Terminal .		(0.004 ± 0.0016)			06 ± 0					.010				(0.014 ± 0.006)								(0.020 ± 0.010)								0.50 ± 0.25 (0.020 ± 0.010)									
WVDC	1	16	6.3				50	6.3	10	16	25	50	100	6.3	10		25		100	200	250	6.3	10	16	25	50	100	200	250	500	6.3	10	16	25	50	100	200	250	500
Cap 100 10	01	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	В	В									В									
(pF) 150 15	51	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	В	В									В									
220 22	21	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	В	В		N	N	N	N	N	N	N	В	В	В	В	В	В	В	Т	Т	D
330 33	31	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	В	В		N	N	N	N	N	N	N	В	В	В	В	В	В	В	Т	Т	D
470 47	71	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	В	В		N	N	N	N	N	N	N	В	В	В	В	В	В	В	Т	Т	D
680 68	81	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	В	В		N	N	N	N	N	N	N	В	В	В	В	В	В	В	Т	Т	D
1000 10	02	А	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	В	В		N	N	N	N	N	N	N	В	В	В	В	В	В	В	Т	Т	D
1500 15	52	А	Α	Α	Α	Α		Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	В	В		N	N	N	N	N	N	N	В	В	В	В	В	В	В	Т	Т	D
2200 22	22	Α	Α	Α	Α	Α		Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	В	В		N	N	N	N	N	N	N	В	В	В	В	В	В	В	Т	Т	D
3300 33	32		Α	Α	Α	Α		Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	В	В		N	N	N	N	N	Α	Α	Α	В	В	В	В	В	В	T	Т	D
3900 39	92		Α	Α	Α	Α		Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	В	В		N	N	N	N	N	Α	Α	Α	В	В	В	В	В	В	Т	Т	D
4700 47	72		Α	Α	Α	Α		Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	В	В		N	N	N	N	N	Α	Α	Α	В	В	В	В	В	В	Т	Т	D
5600 56	62		Α	Α	Α	Α		Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	В	В		N	N	N	N	N	Α	Α	Α	В	В	В	В	В	В	Т	Т	D
6800 68	82		Α	Α	Α	Α		Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	В	В		N	N	N	N	N	Α	Α	Α	В	В	В	В	В	В	Т	Т	D
Cap 0.010 10	03		Α	Α	Α	Α		Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	В	В		N	N	N	N	N	Α	Α	Α	В	В	В	В	В	В	D	D	D
(μF) 0.012 12	23							Α	Α	Α	Α	Α		Α	Α	Α	Α	Α	Α	В	В		N	N	N	N	N	Α	Α	Α	В	В	В	В	В	В	D	D	D
0.015 15	53							Α	Α	Α	Α	Α		Α	Α	Α	Α	Α	В	В	В		N	N	N	N	Α	Α	Α	Α	В	В	В	В	В	В	D	D	D
0.018 18								Α	Α	Α	Α	Α		Α	Α	Α	Α	Α	В	В	В		N	N	N	N	Α	Α	Α	Α	В	В	В	В	В	В	D	D	D
0.022 22	-		Α	Α	Α			Α	Α	Α	Α	Α		Α	Α	Α	Α	Α	В	В	В		N	N	N	N	Α	Α	Α	Α	В	В	В	В	В	В	D	D	Α
0.027 27								Α	Α	Α	Α	Α		Α	Α	Α	Α	В	В				N	N	N	N	Α	Α	Α		В	В	В	В	В	В	D	D	Α
0.033 33	\rightarrow							Α	Α	Α	Α	Α		Α	Α	Α	В	В	В				N	N	N	N	Α	Α	Α		В	В	В	В	В	В	Α	Α	Α
0.039 39								Α	Α	Α	Α	Α		Α	Α	Α	В	В	В				N	N	N	N	Α	Α	Α		В	В	В	В	В	В	Α	Α	Α
0.047 47	\rightarrow							Α	Α	Α	Α	Α		Α	Α	Α	В	В	В				N	N	N	N	Α	Α	Α		В	В	В	В	В	В	Α	Α	Α
0.068 68	\rightarrow						_	Α	Α	Α	Α	С		Α	Α	Α	В	В	В				N	N	N	N	Α	Α			В	В	В	В	В	D	Α	Α	_
0.082 82								Α	Α	A	Α	С	<u> </u>	Α	Α	Α	В	В	В			_	N	N	N	N	Α	Α			В	В	В	В	В	D	Α	Α	_
0.1 10	-		Α					Α	Α	Α	Α	С		Α	Α	Α	В	В	В				N	N	N	N	Α	Α			В	В	В	В	В	D	Α	Α	_
0.12 12	\rightarrow					-								Α	A	A	В	В			-	-	N	N	N	E	A				В	В	В	В	В	D	Α	Α	_
0.15 15	\rightarrow					-		Α	A	A	A	-		Α	A	A	В	В			-	-	E	E	E	E	Α				٧	V	V	M	M	A	Α	Α	_
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WVDC	07	16	62	10	16	25	50	62	10	16	25	50	100	62	10	16	25	50	100	200	250	62	10	16	25	50	100	200	250	500	62	10	16	25	50	100	200	250	500
SIZE	-	01005	0.3	_	0201		50	0.3	10		02	30	100	0.5		10	06		100	200	1230	0.3	10	10		0805		200	230	300	0.3	10	10		1 206		200	230	500
SIZE		01003			0201					- 04	02		0003							0805									1206										

Case Size	01005 (KGM 02)	0201 (KGM03)	0402 (F	(GM05)	060	03 (KGM	15)		0805 (K	GM21)		1206 (KGM31)												
Thickness Letter	Α	Α	Α	С	Α	В	С	В	N	Е	Α	В	٧	М	Т	Р	D	Α	Н					
Max Thickness (mm)	0.22	0.33	0.55	0.70	0.90	0.95	1.00	0.94	1.00	1.35	1.45	0.94	1.22	1.25	1.35	1.40	1.45	1.80	1.90					
Carrier Tape	PAPER	PAPER	PAF	PER	PAPER	PAPER	PAPER	PAPER	PAPER	EMB	EMB	PAPER	EMB	EMB	EMB	EMB	EMB	EMB	EMB					
Packaging Code 7"reel	Н	Н	Н	Н	T	T	T	T	Т	U	U	T	U	U	U	U	U	U	U					
Packaging Code 13"reel	n/a	N	N	N	М	М	М	М	М	Ĺ	L	М	L	L	L	L	L	Ĺ	L					
		PAPER													EMBOSSED (EMB)									





SIZE					1210						18	12			1825						2220			2225				
Solderin	g			Re	flow Or	nly					Reflo	v Only				Reflov	v Only			Re	flow Or	nly		Reflow Only				
Packagin	ıg			Pape	r/Embc	ssed					All Em	bossed				All Eml	ossed			All	Emboss	sed			All Emi			
(L) Length	mm (in.)				.30 ± 0.							± 0.40	,				± 0.40 ± 0.016)				70 ± 0.5				5.70 ± (0.224		,	
-	(III.) mm				50 ± 0.0							± 0.016) ± 0.40)			6.40					24 ± 0.0 00 ± 0.4				6.30)	
W) Width	(in.)				98 ± 0.0							± 0.40 ± 0.016)		(± 0.40 ± 0.016)				97 ± 0.0				: 0.248))	
(t) Terminal	mm				50 ± 0.2						<u> </u>	± 0.36				0.61 :					64 ± 0.3				0.64			
· /	(in.)			_	20 ± 0.0						`	± 0.014					± 0.014)				25 ± 0.0	(0.025 ± 0.015)						
	WVDC	10	16	25	50	100	200	500	16	25	50	100	200	500	50	100	200	500	25	50	100	200	500	50	100	200	500	
Cap 100	101 151																					_	-	~	-W-			
(pF) 150 220	221	R	R	R	R	R	R	D														- 🔨) ∫ _T			
330	331	R	R	R	R	R	R	D	Α	Α	Α	Α	Α	Α								_ ($\overline{}$)	D 4.			
470	471	R	R	R	R	R	R	D	A	A	A	A	A	A								-	<u> </u>	1				
680	681	R	R	R	R	R	R	D	A	A	A	A	A	A								-		. 1				
1000	102	R	R	R	R	R	R	D	A	A	A	A	A	В	С	С	С	С	Z	Z	Z	Z	Z	D	D	D	D	
1500	152	R	R	R	R	R	R	D	A	A	A	A	A	В	C	С	C	C	Z	Z	Z	Z	Z	D	D	D	D	
2200	222	R	R	R	R	R	R	D	A	A	A	A	A	В	C	C	C	C	Z	Z	Z	Z	Z	D	D	D	D	
3300	332	R	R	R	R	R	R	Е	Α	Α	Α	Α	Α	В	С	С	С	С	Z	Z	Z	Z	Z	D	D	D	D	
3900	392	R	R	R	R	R	R	Е	Α	Α	Α	Α	Α	В	С	С	С	С	Z	Z	Z	Z	Z	D	D	D	D	
4700	472	R	R	R	R	R	R	Е	Α	Α	Α	Α	Α	В	С	С	С	С	Z	Z	Z	Z	Z	D	D	D	D	
5600	562	R	R	R	R	R	R	Е	Α	Α	Α	Α	Α	В	С	С	С	С	Z	Z	Z	Z	Z	D	D	D	D	
6800	682	R	R	R	R	R	R	Е	Α	Α	Α	Α	Α	В	С	С	С	С	Z	Z	Z	Z	Z	D	D	D	D	
Cap 0.010	103	R	R	R	R	R	R	Е	Α	Α	Α	Α	Α	В	С	С	С	С	Z	Z	Z	Z	Z	D	D	D	D	
(μF) 0.012	123	R	R	R	R	R	R	Е	Α	Α	Α	Α	Α	В	С	С	С	С	Z	Z	Z	Z	Z	D	D	D	D	
0.015	153	R	R	R	R	R	R	E	Α	Α	Α	Α	Α	В	С	С	С	С	Z	Z	Z	Z	Z	D	D	D	D	
0.018	183	R	R	R	R	R	R	E	A	A	A	A	Α	В	С	С	С	С	Z	Z	Z	Z	Z	D	D	D	D	
0.022	223 273	R R	R R	R	R R	R R	E E	E H	A	A	A	A	A	B B	C	C	C	C	Z Z	Z Z	Z	Z Z	Z Z	D D	D D	D D	D D	
0.027	333	R	R	R R	R	R	E	Н	A	A	A	A	A	В	С	C	С	C	Z	Z	Z	Z	Z	D	D	D	D	
0.033	393	R	R	R	R	R	E	Н	A	A	A	A	A	В	С	C	С	C	Z	Z	Z	Z	Z	D	D	D	D	
0.039	473	R	R	R	R	R	E	H	A	A	A	A	В	В	C	C	С	C	Z	Z	Z	Z	Z	D	D	D	D	
0.068	683	R	R	R	R	R	Н	P	A	A	A	A	В	F	C	C	C	С	Z	Z	Z	Z	Z	D	D	D	D	
0.082	823	R	R	R	R	R	Н	P	A	A	A	A	В	F	C	C	C	C	Z		Z	Z	Z	D	D	D	D	
0.100	104	R	R	R	R	R	Н	P	Α	Α	Α	В	В	F	C	C	C	C	Z	Z	Z	Z	Z	D	D	D	D	
0.120	124	R	R	R	R	R	Н		Α	Α	Α	В	В	J	С	С	С	С	Z	Z	Z	Z	Z	D	D	D	D	
0.150	154	Е	Е	Е	Е	Е	L		Α	Α	Α	В	F	J	С	С	С	С	Z	Z	Z	Z	Z	D	D	D	D	
0.220	224	Е	Е	Е	Е	Е	L		Α	Α	Α	В	F	J	С	С	С	С	Z	Z	Z	Z	Z	D	D	D	D	
0.330	334	Е	Е	Е	Е	Н	L		Α	Α	Α	В	F	J	С	С	С	С	Z	Z	Z	Z	Z	D	D	D	D	
0.470	474	Е	Е	Е	Е	L	L		Α	Α	Α	F	F	J	С	С	С	С	Z	Z	Z	Z	Z	D	D	D	D	
0.680	684	Е	Е	Е	Е	L	L		F	F	F	F	J		С	С	С		Z	Z	Z	Z	С	D	D	D	G	
1.000	105	Е	Е	Е	Е	L			F	F	F	F	J		С	С	С		Z	Z	Z	Z	D	D	D	D		
2.200	225	L	L	L	L	L			F	F	F	J			С	С	F		Z	Z	Z	С		D	D	G		
4.700	475	L	L	L	L				J	J	J	J			С	F			Z	Z	Z			D	G			
10	106	L	L	L	Α				J	J	J				F	F			С	С	D			G	G			
22	226	L	Α	L								_							D	D	Н							
47	476	L																										
WVDC	107	10	16	25	50	100	200	500	16	25	50	100	200	500	50	100	200	500	25	50	100	200	500	50	100	200	500	
SIZE		10	10	23	1210	100	200	300	10	23		12	200	300	30	18		300	25	30	2220	200	300	30			300	
SIZE					1210						10	112				10	23				2220					23		

Case Size			121	10 (KGM	32)				1812 (K	GM 43)		1825 (K	(GM 44)		2220 (K	2225 (KGM56)			
Thickness Letter	R	D	E	Н	Р	Α	L	Α	В	F	J	С	F	Z	С	D	Н	D	G
Max Thickness (mm)	1.05	1.4	1.45	1.8	2.2	2.70	2.80	1.4	1.45	2.21	2.80	2.21	2.80	2.21	2.80	3.3	3.4	2.21	2.80
Carrier Tape	EMB	EMB	EMB	EMB	EMB	EMB	EMB	EMB	EMB	EMB	EMB	EMB	EMB	EMB	EMB	EMB	EMB	EMB	EMB
Packaging Code 7"reel	U	U	U	U	U	U	U	V	V	٧	V	V	V	٧	V	V	V	V	V
Packaging Code 13"reel	L	L	L	L	L	L	L	S	S	S	S	S	S	S	S	S	S	S	S
		EMBOSSED(EMB)																	

Mouser Electronics

Authorized Distributor

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KYOCERA AVX:

08055C393KAT2A 08055C393KAT4A 08055C393MAT2A 08055C471JAT2A 08055C471KAT2A 08055C471KAT4A 08055C471MAT2A 08055C472JAT2A 08055C472KAT2A 08055C472KAT4A 08055C472MAT2A 08055C473JAT2A 08055C473KAT2A 08055C473KAT4A 08055C473MAT2A 08055C562JAT2A 08055C562KAT2A 08055C562MAT2A 08055C681KAT2A 08055C681KAT4A 08055C681MAT2A 08055C682JAT2A 08055C682KAT2A 08055C682KAT4A 08055C682MAT2A 08055C682MAT4A 08055C683KAT2A 08055C683KAT4A 08055C683MAT2A 08055C683MAT4A 08055C823JAT2A 08055C823KAT2A 08055C823MAT2A 08055C102JAT2A 08055C102KAT2A 08055C102KAT4A 08055C102MAT2A 08055C102MAT4A 08055C103JAT2A 08055C103JAT4A 08055C103KAT4A 08055C103MAT2A 08055C103MAT4A 08055C104MAT2A 08055C104MAT4A 08055C105KAT2A 08055C123KAT2A 08055C123MAT2A 08055C124KAT2A 08055C152KAT4A 08055C152MAT2A 0805YC474MAT2A 0805YC562KAT2A 0805YC562MAT2A 0805YC682KAT2A 0805YC683KAT2A 0805YC823KAT2A 0805ZC102KAT2A 0805ZC102MAT2A 0805ZC103KAT2A 0805ZC103MAT2A 0805ZC104KAT2A 0805ZC104MAT2A 0805ZC105JAT2A 0805ZC105JAT4A 0805ZC105KAT2A 0805ZC105KAT4A 0805ZC105MAT2A 0805ZC105MAT4A 0805ZC124KAT2A 0805ZC153KAT2A 0805ZC153KAT4A 0805ZC154KAT2A 12061C102JAT2A 12061C102KAT2A 12061C102KAT4A 12061C102MAT2A 12061C102MAT4A 12061C103JAT2A 12061C103KAT2A 12061C103KAT4A 12061C103MAT2A 12061C103MAT4A 12061C104JAT2A 12061C104KAT2A 12061C104KAT4A 12061C104MAT2A 12061C104MAT4A 12061C123KAT2A 12061C123KAT4A 12061C152KAT2A 12061C152KAT4A 12061C152MAT2A 12061C153JAT2A 12061C153KAT2A 12061C153KAT4A 12061C183KAT2A 12061C183KAT4A 12061C221KAT2A 12061C222KAT2A