

Data Sheet

Customer:

Product: Thick Film Chip Resistor - CR Series

01005/0201/0402/0603/0805/1206/1210/2010/2512/ Size:

1225/0612

Issued Date: 20-May-19

Edition: REV.C5



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20-May-19	20-May-19	20-May-19	20-May-19	
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Thick Film Chip Resistor



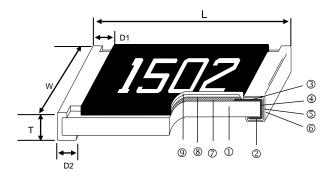
Scope

- This specification applies to all sizes of rectangular-type fixed chip resistors with Ruthenium-base as material.

Features

- Small size and light weight
- Highly reliable multilayer electrode construction
- Compatible with all soldering process
- -Long side terminations

Construction



Applications

- Telecommunication Equipments
- Radio and Tape Recorders, TV Tuners
- Digital Cameras, Watches, Pocket Calculators
- -Computers, Instruments
- Medical Equipment

1	Alumina Substrate	4	Edge Electrode	7	Resistor Layer
2	Bottom Electrode	(5)	Barrier Layer	8	Primary Overcoat
3	Top Electrode	6	External Electrode	9	Secondary Overcoat

Dimensions

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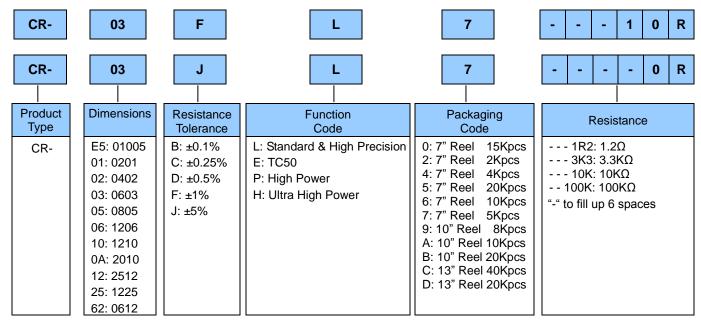
Туре	Size (Inch)	L (mm)	W (mm)	T (mm)	D1 (mm)	D2 (mm)	Weight (g) (1000pcs)
CR-E5	01005	0.40±0.02	0.20±0.02	0.13±0.02	0.10±0.03	0.10±0.03	0.037
CR-01	0201	0.60±0.03	0.30±0.03	0.23±0.03	0.15±0.05	0.15±0.05	0.150
CR-02	0402	1.00±0.05	0.50±0.05	0.35±0.05	0.20±0.10	0.20±0.10	0.620
CR-03	0603	1.60±0.10	0.80±0.10	0.45±0.10	0.30±0.20	0.30±0.20	2.042
CR-05	0805	2.00±0.10	1.25±0.10	0.50±0.10	0.35±0.20	0.40±0.20	4.368
CR-06	1206	3.10±0.10	1.55±0.10	0.55±0.10	0.50±0.25	0.50±0.20	8.947
CR-10	1210	3.10±0.10	2.60±0.15	0.55±0.10	0.50±0.25	0.50±0.20	15.959
CR-0A	2010	5.00±0.10	2.50±0.15	0.55±0.10	0.60±0.25	0.50±0.20	24.241
CR-12	2512	6.35±0.10	3.10±0.15	0.55±0.10	0.60±0.25	0.50±0.20	39.448
CR-25	1225	3.20±0.15	6.45±0.15	0.90±0.15	0.60±0.30	0.80±0.25	64.88
CR-62	0612	1.55±0.10	3.10±0.15	0.55±0.10	0.25±0.15	0.35±0.15	9.31

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Part Numbering

Part Number : CR-03FL7---10R Part Number : CR-03JL7----0R



Standard Electrical Specifications

Item	Power Rating at 70°C Jumper	Operating Temp. Range	Max. Operating	Max. Overload	Resistanc	e Range	TCR (PPM/°C)
Туре	Rated Current	Temp. Kange	Voltage	Voltage	±1%(E24 \ E96)	±5%(E24)	(FFW/ C)
CR-E5 (01005)	1/32W	-55 ~ +125°C	15V	30V	10Ω -	1ΜΩ	±300
0.1 20 (0.000)	Jumper: 0.5A	. 00 1120 0			-	0Ω (<50mΩ)	-
CR-01 (0201)	1/20W	-55 ~ +125°C	25V	50V	1Ω - 1	0ΜΩ	±200
, ,	Jumper: 1A				-	0Ω (<50mΩ)	-
CR-02 (0402)	1/16W	-55 ~ +155°C	50V	100V	1Ω - 9 10Ω - 1.02ΜΩ - 20.5ΜΩ -	1MΩ - 20MΩ	±200 ±100 ±200 ±400
	Jumper: 1A				-	0Ω (<50mΩ)	-
CR-03 (0603)	1/10W	-55 ~ +155°C	75V	150V	1Ω - 9 10Ω - 1.02ΜΩ - 20.5ΜΩ -	1MΩ - 20MΩ	±200 ±100 ±200 ±400
	Jumper: 1A				-	0Ω (<50mΩ)	-
CR-05 (0805)	1/8W	-55 ~ +155°C	150V	300V	1Ω - 9 10Ω - 1.02ΜΩ - 20.5ΜΩ -	.76Ω 1MΩ - 20MΩ	±200 ±100 ±200 ±400
	Jumper: 2A				-	0Ω (<50mΩ)	-
CR-06 (1206)	1/4W	-55 ~ +155°C	200V	400V	1Ω - 9 10Ω - 1.02MΩ - 20.5MΩ -	1MΩ - 20MΩ	±200 ±100 ±200 ±400
	Jumper: 2A				-	0Ω (<50mΩ)	-
CR-10 (1210)	1/3W	-55 ~ +155°C	200V	400V	1Ω - 9 10Ω - 1.02ΜΩ 20.5ΜΩ	.76Ω 1MΩ - 20MΩ	±200 ±100 ±200 ±400
	Jumper: 2.5A				-	0Ω (<50mΩ)	-

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Item	Power Rating at 70°C Jumper	Operating Temp. Range	Max. Operating	Max. Overload	Resistanc	e Range	TCR (PPM/°C)
Туре	Rated Current		Voltage	Voltage	±1%(E24 \ E96)	±5%(E24)	
CR-0A (2010)	3/4W	-55 ~ +155°C	200V	400V	1Ω - 9 10Ω - 1.02ΜΩ 20.5ΜΩ -	1MΩ - 20MΩ	±200 ±100 ±200 ±400
	Jumper: 3.5A				-	0Ω (< $50m\Omega$)	-
CR-12 (2512)	1W	-55 ~ +155°C	250V	500V	1Ω - 9 10Ω - 1.02ΜΩ 20.5ΜΩ -	1MΩ - 20MΩ	±200 ±100 ±200 ±400
	Jumper: 4A				-	0Ω (< 50 m Ω)	-
CD 25 (4225)	2W	FF .4FF00	2001/	400)/	10Ω –	20ΚΩ	±100
CR-25 (1225)	Jumper: 10A	-55 ~ +155°C	200V	400V	-	0Ω (<20mΩ)	-
CR-62 (0612)	0.75W	-55 ~ +155°C	200V	400V	1Ω~1	ΜΩ	±100

■High Precision Electrical Specifications

Item	Power Rating at 70°C	Operating Temp. Range	Max. Operating	Max. Overload	R	esistance (E24 \ E		TCR (PPM/°C)		
Туре	at 70 C	Tellip. Kalige	Voltage	Voltage	±0.1%	±0.25%	±0.5%	(FFINI/ C)		
CR-02 (0402)	1/16W		50V	100V		•	10Ω - 1ΜΩ	±100		
CIX-02 (0402)	1/1000		30 V	100 V		•	1.02M - 10MΩ	±200		
CR-03 (0603)	1/10W		75V	150V	10Ω - 11		ΜΩ	±100		
CIX-03 (0003)	1/1000		750 1500		-	1.02	Μ - 10ΜΩ	±200		
CD 05 (0905)	(0005) 4 (0)4(150\/	150V 300V		-0)/		10Ω - 1	ΜΩ	±100
CR-05 (0805)	1/8W		150V	300 V	-	1.02	Μ - 10ΜΩ	±200		
CD 06 (4206)	1/4W	55 45500	2001/	400\/		10Ω - 1	ΜΩ	±100		
CR-06 (1206)	1/400	-55 ~ +155°C	200V	400V	- 1.02M - 10MΩ			±200		
CD 40 (4240)	4/0\\]	200V	400V		10Ω - 1	ΜΩ	±100		
CR-10 (1210)	1/3W		2007	4007	-	1.02	Μ - 10ΜΩ	±200		
CB 04 (2010)	0/414		200V	400\/		10Ω - 1	ΜΩ	±100		
CR-0A (2010)	3/4W		2007	400V	-	1.02	Μ - 10ΜΩ	±200		
CR-12 (2512)	1W 250V	500V		10Ω - 1ΜΩ		±100				
01(-12 (2012)	1 V V		230 V	300 V	-	1.02	Μ - 10ΜΩ	±200		

■TC50 Electrical Specifications

Item	Power Rating	Operating Temp.	- Operating Overload		tance Rai	nge (E24	TCR		
Туре	at 70°C	Range	Voltage	Voltage	±0.1%	±0.25%	±0.5%	±1%	(PPM/°C)
CR-02 (0402)	1/16W		50V	100V		-	100Ω	- 1MΩ	
CR-03 (0603)	1/10W		75V	150V					
CR-05 (0805)	1/8W		150V	300V		10Ω - 10ΜΩ			±50
CR-06 (1206)	1/4W	-55 ~ +155°C	200V	400V	10Ω -				
CR-10 (1210)	1/3W		200V	400V	1ΜΩ				
CR-0A (2010)	3/4W		200V	400V					
CR-12 (2512)	1W		250V	500V					

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3 Revision: 20-May-2019



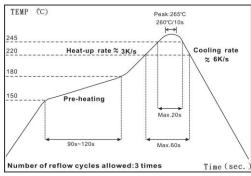
High Power & Ultra High Power Rating Electrical Specifications

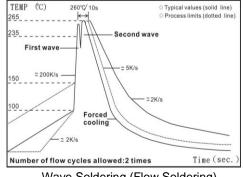
Item	Power Rating at 70°C	Operating Temp.	Max. Operating	Max. Overload	Resistan	ce Range	TCR (PPM/°C)
Туре	at 70 C	Kange	Voltage	Voltage	±1% (E24 \ E96)	±5% (E24)	(FFIVI/ C)
CR-02 (0402)	1/8W		50V	100V			
` ′	03 (0603) Jumper: 1.5A 1/4W				-		
CR-03 (0603)			75V	150V			
Jı	Jumper: 2A	- 55 ~ +155°C					±200 ±100
CR-05 (0805)	1/3W		150V	300V			
CK-05 (0605)	Jumper: 2.5A		1507	300 V	- 1Ω - 9.76Ω 10Ω - 1ΜΩ	1Ω - 9.76Ω 10Ω - 1ΜΩ 0Ω (<20mΩ)	
CR-06 (1206)	1/3 *1/2W		200V	400V			
CK-06 (1206)	Jumper: 3.5A	00 4 1100 0	2007	4007	-		-
CR-10 (1210)	1/2 *3/4W		200V	400V		(= ()	
CK-10 (1210)	Jumper: 5A		200 V	400 V			
CB 04 (2010)	1W		200V	400V			
CR-0A (2010)	Jumper: 6A		200 V	400 V			
CD 12 (2512)	2W		250V	500V			
CR-12 (2512)	Jumper: 7A		2507	3007			

^{*:} Ultra High Power

■ Viking is capable of manufacturing the optional spec based on customer's requirement.

Soldering Condition



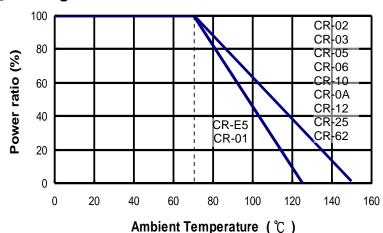


IR Reflow Soldering

Wave Soldering (Flow Soldering)

- (1) Time of IR reflow soldering at maximum temperature point 260°C: 10s
- (2) Time of wave soldering at maximum temperature point 260°C: 10s
- (3) Time of soldering iron at maximum temperature point 410°C: 5s

Derating Curve



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Operating Voltage=√ (P*R) or Max. Operating Voltage listed above, whichever is lower.

Overload Voltage=2.5*\(\sigma(P*R)\) or Max. Overload Voltage listed above, whichever is lower.



Environmental Characteristics

Item		Requirement		Test Method
item	±1% and Below	±5%	Jumper	- rest metriou
Temperature Coefficient of	As Spec.			JIS-C-5201-1 4.8 IEC-60115-1 4.8
Resistance (T.C.R.)	As Spec.			At 25°C/-55°C and 25°C/+125°C, 25°C is the reference temperature
				JIS-C-5201-1 4.13 IEC-60115-1 4.13
Short Time Overload	±(1.0%+0.05Ω)	±(2.0%+0.05Ω)	<50mΩ	RCWV*2.5 or Max. Overload Voltage whichever is lower for 5 seconds, 2 seconds for high power series
Insulation Resistance	≥10G			JIS-C-5201-1 4.6 IEC-60115-1 4.6
			,	Max. Overload Voltage for 1 minute
	// /	/a and a dag		JIS-C-5201-1 4.25 IEC-60115-1 4.25.1
Endurance	±(1.0%+0.10Ω)	±(2.0%+0.10Ω)	<100mΩ	70±2°C, RCWV for 1000 hrs with 1.5 hrs "ON" and 0.5 hr "OFF"
		,		JIS-C-5201-1 4.24 IEC-60115-1 4.24
Damp Heat with Load	±(1.0%+0.10Ω)	±(2.0%+0.10Ω)	<100mΩ	40±2°C, 90~95% R.H., RCWV for 1000 hrs with 1.5 hrs "ON" and 0.5 hr "OFF"
	//	// ==/	0	JIS-C-5201-1 4.23 IEC-60115-1 4.23.2
Dry Heat	±(1.0%+0.05Ω)	±(1.5%+0.10Ω)	<50mΩ	at +125/+155°C for 1000 hrs
				JIS-C-5201-1 4.33 IEC-60115-1 4.33
Bending Strength	±(1.0%+0.05Ω)	\pm (1.0%+0.05Ω)	<50mΩ	Bending once for 5 seconds
				2010, 2512 sizes: 2mm Other sizes: 3mm
Solderability	95% min. cover	200		JIS-C-5201-1 4.17 IEC-60115-1 4.17
Colderability	3370 Hilli. COVE	age		245±5°C for 3 seconds
Resistance to Soldering Heat	+(0.5%+0.050)	+(1.0%+0.050)	<50mO	JIS-C-5201-1 4.18 IEC-60115-1 4.18
Tresistance to coldening freat	±(0.070+0.0052)	±(1.070+0.032)	C0011122	260±5°C for 10 seconds
Voltage Proof	No breakdown	or flashover	l	JIS-C-5201-1 4.7 IEC-60115-1 4.7
Voltage 1 1001	No breakdown	or nasnover		1.42 times Max. Operating Voltage for 1 minute
Leaching	Individual leach	ing area ≦5%		JIS-C-5201-1 4.18 IEC-60068-2-58 8.2.1
Leading	Total leaching a	rea ≦ 10%		260±5°C for 30 seconds
Rapid Change of Temperature	±(0.5%+0.05Ω)	±(1.0%+0.05Ω)	<50mΩ	JIS-C-5201-1 4.19 IEC-60115-1 4.19
теттрегацие	,	,		-55°C to +125/+155°C, 5 cycles

RCWV(Rated Continuous Working Voltage)= $\sqrt{(P^*R)}$ or Max. Operating Voltage whichever is lower.

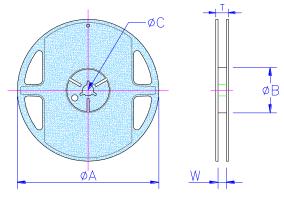
■Storage Temperature: 15~28°C; Humidity < 80%RH

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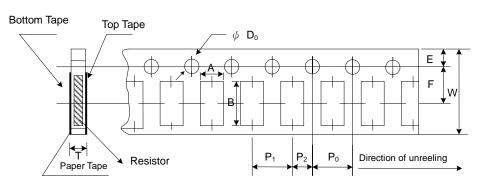
■Packaging

Reel Specifications & Packaging Quantity



Туре	_	Packaging Tape Quantity Width		Reel Diameter	ΦA (mm)	ФВ (mm)	ΦC (mm)	W (mm)	T (mm)
CR-E5	Donor	10K	8mm	7 inch	178.5±1.5	60 ^{+1/-0}	13.0±0.2	9.0±0.5	12.5±0.5
CR-ES	Paper	20K	8mm	7 inch	178.5±1.5	60 ^{+1/-0}	13.0±0.2	9.0±0.5	12.5±0.5
CR-01	Paper	15K	8mm	7 inch	178.5±1.5	60 ^{+1/-0}	13.0±0.2	9.0±0.5	12.5±0.5
		10K	8mm	7 inch	178.5±1.5	60+1/-0	13.0±0.2	9.0±0.5	12.5±0.5
CR-01 CR-02	Paper	20K	8mm	10 inch	254±1.0	100±0.5	13.0±0.2	9.5±0.5	13.5±0.5
		40K	8mm	13 inch	330±1.0	100±0.5	13.0±0.2	9.5±0.5	13.5±0.5
CR-03		5K	8mm	7 inch	178.5±1.5	60 ^{+1/-0}	13.0±0.2	9.0±0.5	12.5±0.5
CR-05	Paper	10K	8mm	10 inch	254±1.0	100±0.5	13.0±0.2	9.5±0.5	13.5±0.5
CR-06 CR-10		20K	8mm	13 inch	330±1.0	100±0.5	13.0±0.2	9.5±0.5	13.5±0.5
CR-0A	Embossed	4K	12mm	7 inch	178.5±1.5	60 ^{+1/-0}	13.0±0.5	13.0±0.5	15.5±0.5
CR-12	EIIIDOSSEG	8K	12mm	10 inch	250±1.0	62±0.5	13.0±0.5	12.5±0.5	16.5±0.5
CR-25	Embossed	2K	12mm	7 inch	178.5±1.5	60+1/-0	13.0±0.5	13.0±0.5	15.5±0.5
CR-62	Paper	5K	8mm	7 inch	178.5±1.5	60 ^{+1/-0}	13.0±0.2	9.0±0.5	12.5±0.5

Paper Tape Specifications



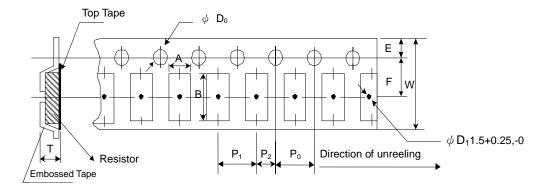
Туре	A (mm)	B (mm)	W (mm)	E (mm)	F (mm)	P₀ (mm)	P ₁ (mm)	P ₂ (mm)	ФD ₀ (mm)	T (mm)
CR-E5	0.24±0.05	0.45±0.05	8.0±0.20	1.75±0.10	3.50±0.05	4.00±0.10	2.00±0.05	2.00±0.05	1.50+0.1,-0	0.40±0.10
CR-01	0.38±0.05	0.68±0.05	8.0±0.20	1.75±0.10	3.50±0.05	4.00±0.10	2.00±0.05	2.00±0.05	1.50+0.1,-0	0.42±0.20
CR-02	0.65±0.10	1.15±0.10	8.0±0.20	1.75±0.10	3.50±0.05	4.00±0.10	2.00±0.05	2.00±0.05	1.50+0.1,-0	0.45±0.10
CR-03	1.10±0.10	1.90±0.10	8.0±0.20	1.75±0.10	3.50±0.05	4.00±0.10	4.00±0.05	2.00±0.05	1.50+0.1,-0	0.70±0.10
CR-05	1.60±0.10	2.40±0.20	8.0±0.20	1.75±0.10	3.50±0.05	4.00±0.10	4.00±0.05	2.00±0.05	1.50+0.1,-0	0.85±0.10
CR-06	1.90±0.10	3.50±0.20	8.0±0.20	1.75±0.10	3.50±0.05	4.00±0.10	4.00±0.05	2.00±0.05	1.50+0.1,-0	0.85±0.10
CR-10	2.90±0.10	3.50±0.20	8.0±0.20	1.75±0.10	3.50±0.05	4.00±0.10	4.00±0.05	2.00±0.05	1.50+0.1,-0	0.85±0.10
CR-62	1.90±0.10	3.50±0.20	8.0±0.20	1.75±0.10	3.50±0.05	4.00±0.10	4.00±0.05	2.00±0.05	1.50+0.1,-0	0.85±0.10

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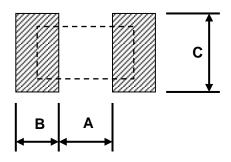


Embossed Plastic Tape Specifications



Туре	A (mm)	B (mm)	W (mm)	E (mm)	F (mm)	P ₀ (mm)	P ₁ (mm)	P ₂ (mm)	ФD₀ (mm)	T (mm)
CR-0A	2.8±0.10	5.5±0.10	12.0±0.30	1.75±0.10	5.5±0.05	4.00±0.10	4.00±0.10	2.00±0.05	1.50+0.1, -0	1.2 ⁺⁰
CR-12	3.5±0.10	6.7±0.10	12.0±0.30	1.75±0.10	5.5±0.05	4.00±0.10	4.00±0.10	2.00±0.05	1.50+0.1, -0	1.2 ⁺⁰
CR-25	3.38±0.10	6.68±0.10	12.0±0.30	1.75±0.10	5.5±0.10	4.00±0.10	4.00±0.10	2.00±0.05	1.55+0.05	1.45±0.20

Recommend Land Pattern



Туре	A (mm)	B (mm)	C (mm)		
CR-E5	0.14	0.18	0.25		
CR-01	0.30	0.25	0.30		
CR-02	0.50	0.45	0.60		
CR-03	0.90	0.60	0.90		
CR-05	1.20	0.70	1.30		
CR-06	2.00	0.90	1.60		
CR-10	2.00	0.90	2.80		
CR-0A	3.80	0.90	2.80		
CR-12	4.90	1.60	3.50		
CR-25	1.20	2.00	7.00		
CR-62	0.70	1.20	3.20		

■Marking

No Marking for 01005, 0201 and 0402

Jumper for all: Letter "0"

1% for 0805/1206/1210/2010/2512/1225/0612: 4 digits marking

Example:

Resistance	5.6Ω	97.6Ω	100Ω	2.2ΚΩ	10ΚΩ	49.9ΚΩ	100ΚΩ
Marking	5R60	97R6	1000	2201	1002	4992	1003

5% for 0603/0805/1206/1210/2010/2512/1225/0612: 3 digits marking in E24

Example: $101=100\Omega$ $102=1K\Omega$ (1st and 2nd are E24 code and 3rd code is multiplier)

E24 code	10	11	12	13	15	16	18	20	22	24	27	30	33	36	39	43	47	51	56	62	68	75	82	91
code																								

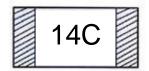
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1% for 0603(E24): 3 digits marking in E24, When the E24 and E96 are the same resistance, this marking in E96

123=12ΚΩ 273=27ΚΩ Example: $01A = 100\Omega$ $05C = 11K\Omega$

1% for 0603: 3 digits marking in E96



3 digits marking for Example: $14C=13K7\Omega$ 13C=13K3Ω

> 68B=4K99Ω 68X=49.9Ω

Marking Table

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Code	E	96	Code	E	96	Code	E	96	Code	E!	96		
01	1	00	25	17	78	49	3	16	73	56	62		
02	1	02	26	18	82	50	3	24	74	57	76		
03	1	05	27	18	87	51	3	32	75	59	90		
04	1	07	28	19	91	52	3	40	76	60)4		
05	1	10	29	19	96	53	3	48	77	6′	19		
06	1	13	30	20	00	54	3	57	78	63	34		
07	1	15	31	20	05	55	3	65	79	64	19		
08	1	18	32	2	10	56	3	74	80	66	§5		
09	1.	21	33	2	15	57	3	83	81	68	31		
10	1.	24	34	22	21	58	3	92	82	698			
11	1.	27	35	22	26	59	402		83	7	15		
12	1	30	36	23	32	60	412		84	73	32		
13	1	33	37	23	37	61	422		85	75	50		
14	1	37	38	24	43	62	432		86	76	88		
15	1	40	39	24	49	63	442		87	78	37		
16	1-	43	40	2	55	64	453		88	80)6		
17	1-	47	41	20	61	65	464		89	82	25		
18	1	50	42	20	67	66	475		475		90	84	15
19	1	54	43	274		67	487		91	86	66		
20	1	58	44	280		68	499		92	88	37		
21	1	62	45	28	87	69	5	511		90)9		
22	165		46	29	94	70	5	23	94	93	31		
23	1	69	47	30	01	71	5	36	95	98	53		
24	1	74	48	48 309		72	549		96	97	76		
Code	Α	В	С	D	Е	F	G	Х	Υ				
Multiplier	10 ⁰	10 ¹	10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶	10 ⁻¹	10 ⁻²				

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REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version C	Jun 03, 2014	-	Environmental Characteristics updatedSize CR-25 specifications added
Version C1	Apr 30, 2015	-	- High Power & Ultra High Power Rating Electrical Increase Jumper Specifications
Version C2	Jun 09, 2015	-	- Increase 0603(E24) 1% marking description
			- Remove Material Description
Version C3	Jul 15, 2016	-	- Size CR-62 specifications added
			- Modify Storage Temperature
			- Modify Electrical Specifications (0R)
Version C4	Jan 12, 2018	-	- Modify 1225 Dimension L, W
			- Modify 2512 Land Pattern
Version C5	May 20, 2019	-	- Modify TCR Test description

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9 Revision: 20-May-2019