

Product / Process Change Notice (PCN)



PCN #: 1901001

Issue Date: 2019-02-18

Product Affected:

Thick Film Chip Resistor - CR Series

Effective Date: 2019-02-18

☐ Product Mark

☐ Date Code

☐ Packaging

☒ Others

Contact: All Customer

Attachment: ☐ Yes ☒ No

DESCRIPTION AND PURPOSE OF CHANGE:

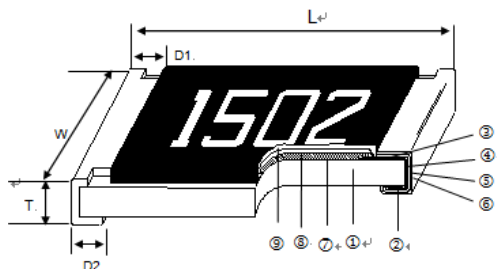
Because Viking's capacity for CR standard parts is full, so we change the production site. Please refer to below "Detail of Change".

And these changes will not impact form, fit and function

We hereby announce that the change will be effective on February 18th, 2019.
And we'll regard as your acceptance if no response to this PCN within the notice period.

DETAIL OF CHANGE:

1. Dimensions



Before change:

Type	Size (Inch)	L (mm)	W (mm)	T (mm)	D1 (mm)	D2 (mm)
CR-E5	01005	0.40±0.02	0.20±0.02	0.13±0.02	0.10±0.03	0.10±0.03
CR-01	0201	0.60±0.03	0.30±0.03	0.23±0.03	0.15±0.05	0.15±0.05
CR-02	0402	1.00±0.05	0.50±0.05	0.35±0.05	0.20±0.10	0.20±0.10
CR-03	0603	1.60±0.10	0.80±0.10	0.45±0.10	0.30±0.20	0.30±0.20
CR-05	0805	2.00±0.10	1.25±0.10	0.50±0.10	0.35±0.20	0.40±0.20
CR-06	1206	3.10±0.10	1.55±0.10	0.55±0.10	0.50±0.25	0.50±0.20
CR-10	1210	3.10±0.10	2.60±0.15	0.55±0.10	0.50±0.25	0.50±0.20
CR-0A	2010	5.00±0.10	2.50±0.15	0.55±0.10	0.60±0.25	0.50±0.20
CR-12	2512	6.35±0.10	3.10±0.15	0.55±0.10	0.60±0.25	0.50±0.20

After change:

Type	Size (Inch)	L (mm)	W (mm)	T (mm)	D1 (mm)	D2 (mm)
CR-E5	01005	0.40±0.02	0.20±0.02	0.13±0.03	0.10±0.03	0.10±0.03
CR-01	0201	0.60±0.03	0.30±0.03	0.23±0.03	0.15±0.05	0.15±0.05
CR-02	0402	1.00±0.05	0.50±0.05	0.30±0.05	0.20±0.10	0.25±0.10
CR-03	0603	1.60±0.10	0.80±0.10	0.45±0.10	0.30±0.20	0.30±0.20
CR-05	0805	2.00±0.10	1.25±0.15	0.50±0.10	0.30±0.20	0.40±0.20
CR-06	1206	3.20±0.20	1.60±0.15	0.55±0.10	0.50±0.20	0.50±0.20
CR-10	1210	3.20±0.20	2.50±0.20	0.55±0.10	0.50±0.20	0.50±0.20
CR-0A	2010	5.00±0.20	2.50±0.20	0.55±0.10	0.60±0.20	0.60±0.20
CR-12	2512	6.30±0.20	3.20±0.20	0.55±0.10	0.60±0.20	0.60±0.20

2.Standard Electrical Specifications

Before change:

Type	Item	Power Rating at 70°C Jumper Rated Current	Operating Temp. Range	Max. Operating Voltage	Max. Overload Voltage	Resistance Range		TCR (PPM/°C)
						±1%(E24 - E96)	±5%(E24)	
CR-E5 (01005)	1/32W	Jumper: 0.5A	-55 ~ +125°C	15V	30V	10Ω - 1MΩ		±300
	Jumper: 0.5A					-	0Ω (<50mΩ)	-
CR-01 (0201)	1/20W	Jumper: 1A	-55 ~ +125°C	25V	50V	1Ω - 10MΩ		±200
	Jumper: 1A					-	0Ω (<50mΩ)	-
CR-02 (0402)	1/16W	Jumper: 1A	-55 ~ +155°C	50V	100V	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 20MΩ 20.5MΩ - 100MΩ	0Ω (<50mΩ)	±200 ±100 ±200 ±400
	Jumper: 1A					-	0Ω (<50mΩ)	-
CR-03 (0603)	1/10W	Jumper: 1A	-55 ~ +155°C	75V	150V	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 20MΩ 20.5MΩ - 100MΩ	0Ω (<50mΩ)	±200 ±100 ±200 ±400
	Jumper: 1A					-	0Ω (<50mΩ)	-
CR-05 (0805)	1/8W	Jumper: 2A	-55 ~ +155°C	150V	300V	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 20MΩ 20.5MΩ - 100MΩ	0Ω (<50mΩ)	±200 ±100 ±200 ±400
	Jumper: 2A					-	0Ω (<50mΩ)	-
CR-06 (1206)	1/4W	Jumper: 2A	-55 ~ +155°C	200V	400V	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 20MΩ 20.5MΩ - 100MΩ	0Ω (<50mΩ)	±200 ±100 ±200 ±400
	Jumper: 2A					-	0Ω (<50mΩ)	-
CR-10 (1210)	1/3W	Jumper: 2.5A	-55 ~ +155°C	200V	400V	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 20MΩ 20.5MΩ - 39MΩ	0Ω (<50mΩ)	±200 ±100 ±200 ±400
	Jumper: 2.5A					-	0Ω (<50mΩ)	-
CR-0A (2010)	3/4W	Jumper: 3.5A	-55 ~ +155°C	200V	400V	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 20MΩ 20.5MΩ - 100MΩ	0Ω (<50mΩ)	±200 ±100 ±200 ±400
	Jumper: 3.5A					-	0Ω (<50mΩ)	-
CR-12 (2512)	1W	Jumper: 4A	-55 ~ +155°C	250V	500V	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 20MΩ 20.5MΩ - 100MΩ	0Ω (<50mΩ)	±200 ±100 ±200 ±400
	Jumper: 4A					-	0Ω (<50mΩ)	-

After change:

Item Type	Power Rating at 70°C Jumper Rated Current	Operating Temp. Range	Max. Operating Voltage	Max. Overload Voltage	Max. Overload Current of Jumper	Resistance Range		TCR (PPM/°C)
						±1%(E24 - E96)	±5%(E24)	
CR-E5 (01005)	1/32W	-55 ~ +125°C	15V	30V	1A	10Ω - 97.6Ω 100Ω - 1MΩ		±300 ±250
	Jumper: 0.5A		-	-	1A	-	0Ω (≤50mΩ)	-
CR-01 (0201)	1/20W	-55 ~ +125°C	25V	50V	1A	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 10MΩ		±400 ±200 ±400
	Jumper: 0.5A		-	-	1A	-	0Ω (≤50mΩ)	-
CR-02 (0402)	1/16W	-55 ~ +155°C	50V	100V	1A	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 10MΩ		±400 ±200 ±400
	Jumper: 1A		-	-	2A	-	0Ω (≤50mΩ)	-
CR-03 (0603)	1/10W	-55 ~ +155°C	75V	150V	1A	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 10MΩ		±250 ±100 ±250
	Jumper: 1A		-	-	3A	-	0Ω (≤50mΩ)	-
CR-05 (0805)	1/8W	-55 ~ +155°C	150V	300V	1A	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 10MΩ		±250 ±100 ±250
	Jumper: 2A		-	-	5A	-	0Ω (≤50mΩ)	-
CR-06 (1206)	1/4W	-55 ~ +155°C	200V	400V	1A	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 10MΩ		±250 ±100 ±250
	Jumper: 2A		-	-	5A	-	0Ω (≤50mΩ)	-
CR-10 (1210)	1/3W	-55 ~ +155°C	200V	400V	1A	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 10MΩ		±250 ±100 ±250
	Jumper: 2A		-	-	5A	-	0Ω (≤50mΩ)	-
CR-0A (2010)	3/4W	-55 ~ +155°C	200V	400V	1A	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 10MΩ		±250 ±100 ±250
	Jumper: 2A		-	-	5A	-	0Ω (≤50mΩ)	-
CR-12 (2512)	1W	-55 ~ +155°C	200V	500V	1A	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 10MΩ		±250 ±100 ±250
	Jumper: 2A		-	-	5A	-	0Ω (≤50mΩ)	-

3.Product Label:

The part number on the product label for new production site will be "CRxxxx-", please refer to the product label as below. (It is just an example).



RELIABILITY / QUALIFICATION SUMMARY:

N/A

DATA SHEET CHANGE:

☒ Yes

☐ No

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