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SPECIFICATION FOR APPROVAL

CUSTOMER	立創電子
CERTIFIED MODEL/TYPE	KRG0300300
PART NO.	KRG0300300IRY(RoHS+HF)
APPLICATION	
CUSTOMER P/N	
ISSUE DATE	Dec.01.2020
REV. NO.	
REV. DATE	

FOR CUSTOMER APPROVAL	CHECKED BY
	Haili Gong
	APPROVED BY
	Huaifang Zhang

REVISED RECORD SHEET

REV. NO	REV. DATE	REVISED CONTENT

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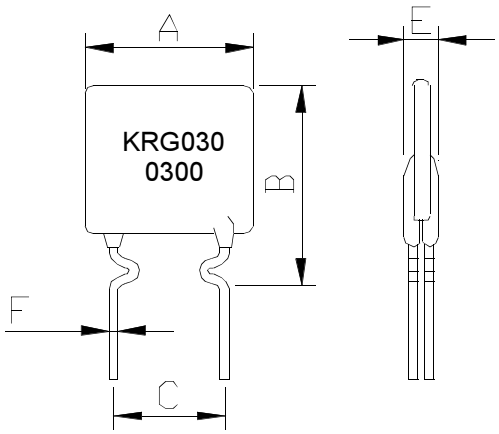
Part Number Code

Example :

K	**R**	**G**	**030**	**0300**	**I**	**R**	**Y**
(1)	**(2)**	**(3)**	**(4)**	**(5)**	**(6)**	**(7)**	**(8)**

No.	Item	Digit	Specification
(1)	Product Type	K	Thinking Polymer PTC Resettable Fuse
(2)	Form Factor	R	Radial series
(3)	Usage	G	General
(4)	Vmax. Operation	030	30 V
(5)	I hold	0300	3.0A @ 23℃
(6)	Appearance	I	Inner Kink Lead
(7)	Packaging	R	Taping & Reel
(8)	Optional Suffix	Y	RoHS+HF compliance

Structure and Dimensions



(unit : mm)

A	B	C typ.	E	F
10.2~11.4	12.4~21.8	5.0±0.8	1.8~3.5	0.8±0.02

Electrical Characteristics (23℃)

Part No.	V max.	I max.	I hold @ 23℃	I trip @ 23℃	Pd (max.)
	(V)	(A)	(A)	(A)	(W)
KRG0300300IRY	30	40	3.00	6.00	2.00

Part No.	Max.time to trip		Resistance (Ω)		Operating / storage temperature
			Initial (Ri)	Post trip (R1)	
	(A)	(Sec.)	min.	max.	(℃)
KRG0300300IRY	15.00	10.8	0.020	0.080	-40 ~ +85

Ihold=Hold current :maximum current device will pass without interruption at 23℃ still air unless otherwise specified.

Itrip=Trip current :minimum current that will switch the device from low resistance to high resistance at 23℃ still air unless otherwise specified.

Vmax=Maximum voltage device can withstand without damage at rated current.

Imax=Maximum current device can withstand without damage at rated voltage .

Pd=Power dissipated from device while the tripped state at 23℃ still air unless otherwise specified.

Rimin=Minimum resistance of device prior to tripping at 23℃ .

Rimax=Maximum resistance of device prior to tripping at 23℃ .

R1max=Maximum resistance of the device one hour after tripping at 23℃ .

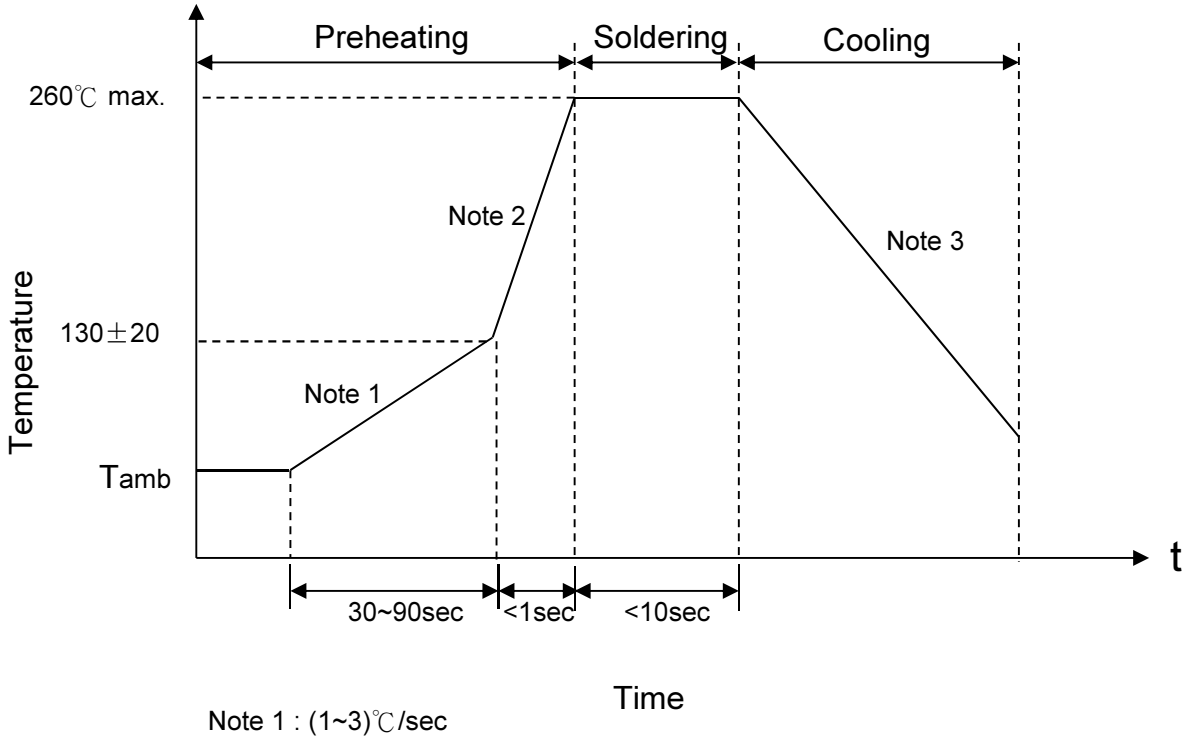
Caution:Operation beyond the specified rating or improper use may result in damage and possible arcing and flame.

Reliability

Item	Standard	Test conditions/Methods	Specifications
Passive Aging	IEC60738-1	85±5℃, 1000±24hrs	±5% typical resistance change
Humidity Aging	IEC60068-2-78	85±5℃, 80~85%RH, 1000±5hrs	±5% typical resistance change
Rapid Change of Temperature	IEC60738-1	85±5/-40±5℃, 10 cycles, Duration:30min	±5% typical resistance change
Overload Endurance	UL 1434	Vmax,120% Imax ,50 cycles + Vmax,300% Itrip ,6000 cycles	No arcing or burring
Aging	UL 1434	Vmax, Itrip≦ I≦Imax , 1000±24hrs	No arcing or burring
Resistance to Soldering Heat	IEC60068-2-58	260 ± 5 ℃ , 10 ± 1 sec	Rf<R1max No visible damage

Soldering Recommendation

■ Wave Soldering Profile

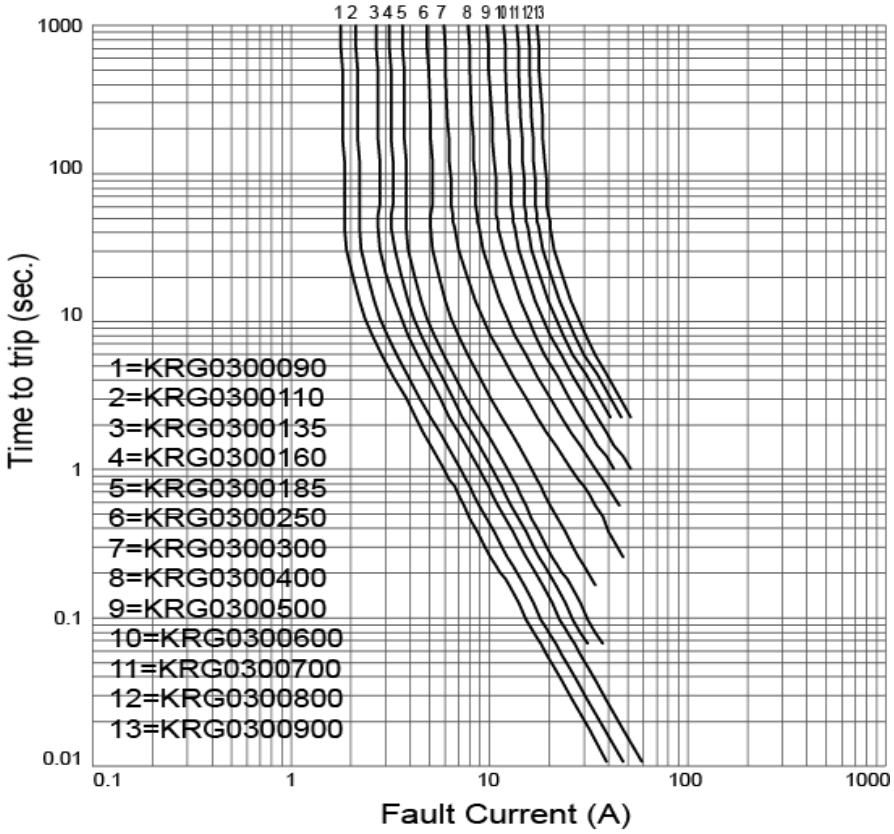


Note 1 : (1~3)℃/sec
Note 2 : Approx. 200℃/sec
Note 3 : 5℃/sec Max

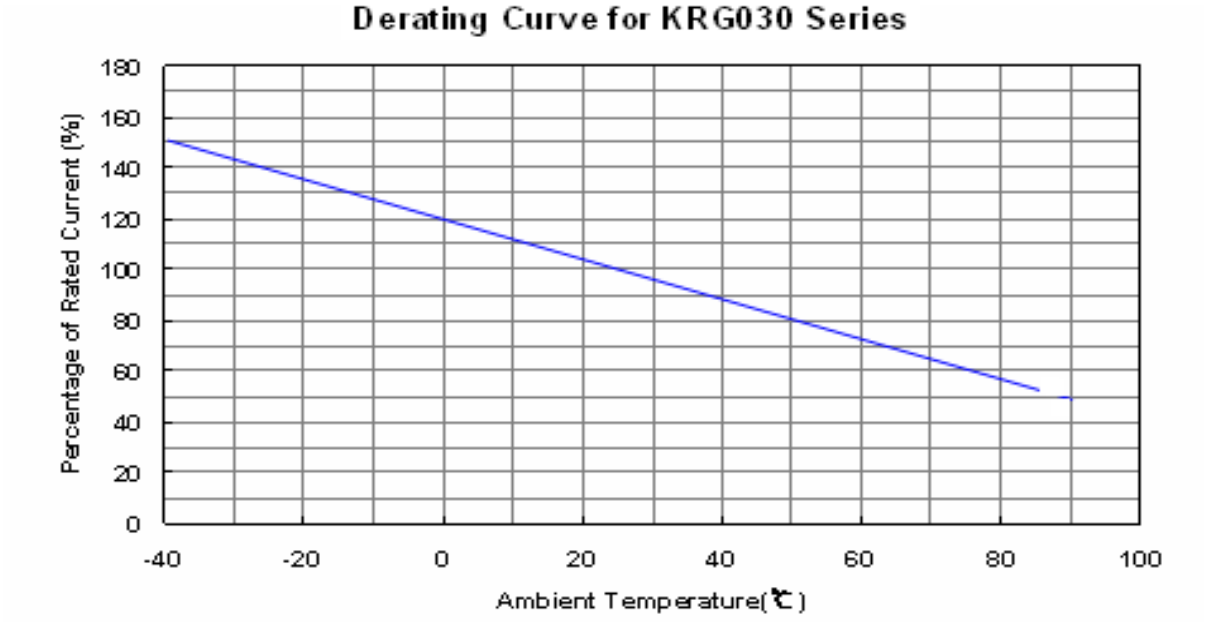
■ Recommended Reworking Conditions with Soldering Iron

Item	Conditions
Temperature of Soldering Iron-tip	360℃ (max.)
Soldering Time	3 sec (max.)
Distance from Thermistor	2 mm (min.)

Typical Time-to-Trip Curves at 23℃



Thermal Derating Curve



Model	Ambient Operation Temperature KRG030								
	-40℃	-20℃	0℃	23℃	40℃	50℃	60℃	70℃	85℃
KRG0300300	4.59	4.08	3.6	3.0	2.61	2.34	1.85	1.83	1.5

RoHS Compliant Declaration

We hereby declare that the components delivered to your company are compliant with RoHS directive 2015/863/EU.

Warehouse Storage Conditions of Products

(I) Storage Conditions :

1.Storage Temperature : -10℃~+40℃

2.Relative Humidity : ≦75%RH

3. Keep away from corrosive atmosphere and sunlight.

(II) Period of Storage : 1 year

Taping and Dimensions

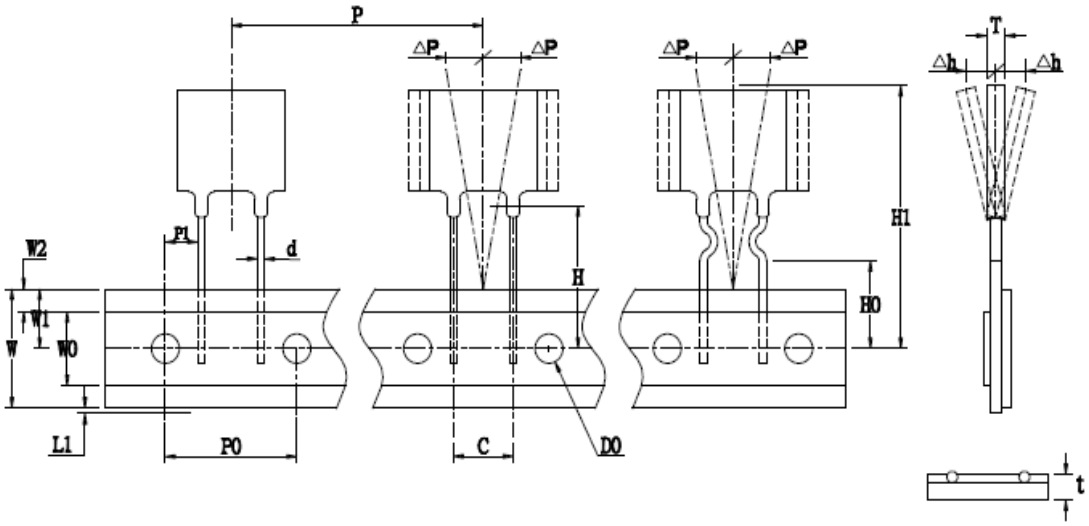


Figure 1

Reel & Direction

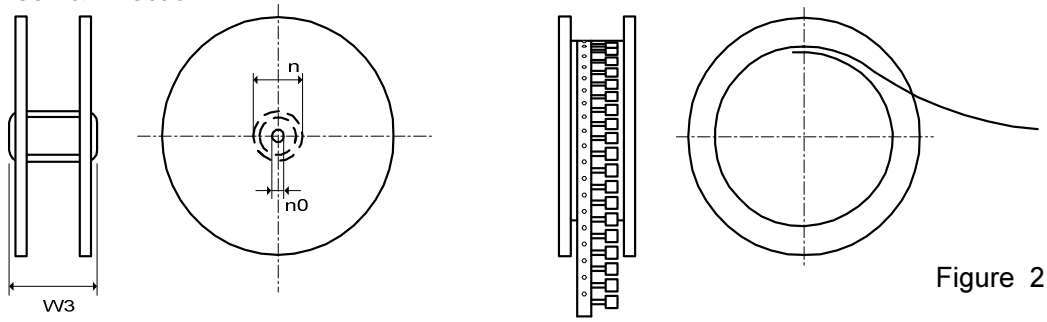


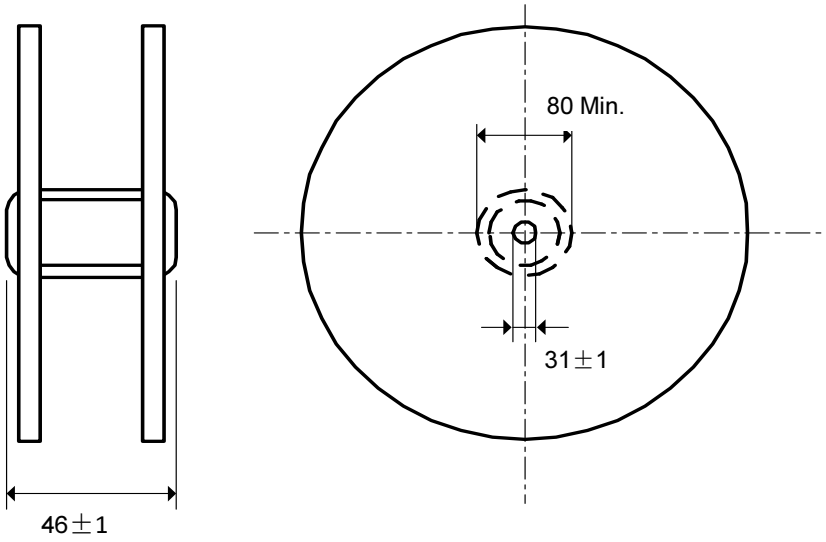
Figure 2

Radial Leaded Devices Series Tape and Reel Specifications
Devices taped using EIA468-B/IEC286-2 standards.See table below and Figures 1 and 2 for details

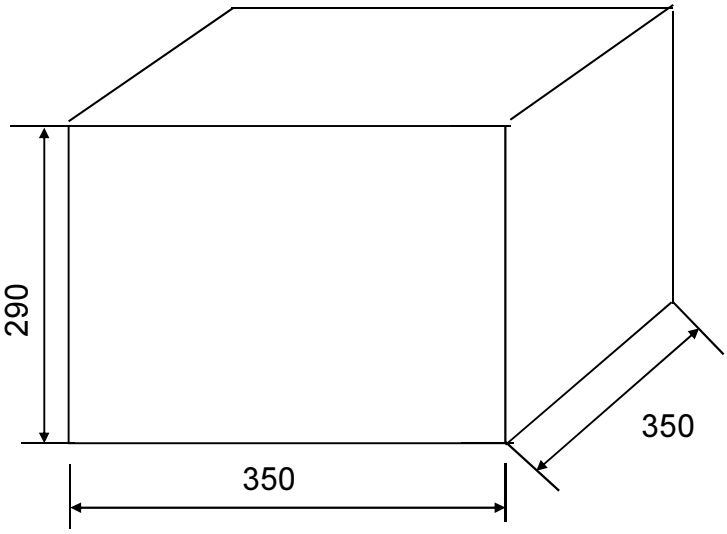
Dimension Description	Dimension(mm)	Tolerance(mm)
P0	12.7	±0.3
P1	3.85	±0.7
P	12.7	±1.0
H0	16	±0.5
W	18	+1/-0.5
W0	12.0	±1.5
F	5.0	±0.8
H1	32.2	Max.
W1	9.0	+0.75/-0.5
W2	3.0	Max.
D0	4.0	±0.2
L1	0.5	Max.
T	0.6	±0.2
Δp	1	Max.
Δh	2	Max.
d	0.8	±0.02

Standard Packing

(1) Quantity (2000pcs/reel)



(2) Quantity (5 reels / Carton)



(Unit:mm)

Safety Approvals **(Certified Model/Type : KRG0300300)**

* UL 1434 / cUL recognized (File # E138827)

* TUV recognized (File R50285055)

Certificates

(1) IATF 16949 certificate
(2) ISO 9001 certificate

Test Report

(1) RoHS test report
(2) Halogen-free test report

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