

HCRTP-MINI

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High Current Reflowable Thermal Protection Mini (HCRTP-MINI) Device is a low-resistance, robust surface mountable thermal protector. It has a set open temperature and can be installed using reliable, lead-free, Surface Mount Device (SMD) assembly and reflow processes.

The new HCRTP-MINI device, recently added to the RTP family, can help withstand the demanding environmental, life and reliability requirements of automotive and industrial applications, including shock, vibration, temperature cycling and humidity exposures. In the field, the HCRTP-MINI device opens if its internal junction exceeds the device's specified open temperature. Temperature increases can have multiple sources, one of which is component failure (e.g., when using power components such as a powerFET, capacitor, resistor, triac, etc.) The HCRTP-MINI device open temperature is selected so that the device does not open within normal component operating windows, but it does open in a thermal runaway event and before the melt temperature of typical lead-free solders.

Specifications

Interrupting Rating:	500A @ 16 VDC
Voltage Rating:	16 VDC
Operating Temperature Range:	-55°C to + 150°C
Initial Resistance:	50μΩ Min, 85μΩ Max

Ordering Information

Part Number	Part Description	Package Size
RF4515-000	HCRTP-MINI	4000

Referenced Performance

Performance		Min	Typ.	Max	Units
Post Reflow Resistance*	@ 23+/-3°C	50	100	150	μΩ
	@ 150+/-3°C	110	155	200	
Hold Current	@ 23+/-3°C			90	A
	@ 140+/-3°C			45	
Max Interrupt Current	16 VDC			500	A
Open Temperature	Zero Bias	212	220	228	°C

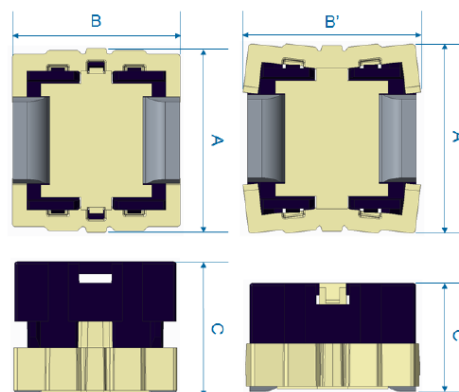
*Post reflow Resistance should be measured by a 4 wired method



* Halogen Free refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm.

Dimensions

Dimensions in mm



Before Mechanical Arming

	A		B		C	
	Min	Max	Min	Max	Min	Max
mm	6.14	7.14	5.56	6.56	4.80	5.20
in	0.242	0.281	0.219	0.258	0.189	0.205

After Mechanical Arming

	A'		B'		C'	
	Min	Max	Min	Max	Min	Max
mm	6.83	7.83	6.15	7.15	3.8	4.2
in	0.269	0.308	0.242	0.281	0.150	0.165

Rev 07302019

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