

Melf Carbon Film Resistor - CRM Series



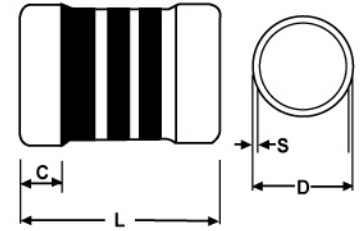
Dimensions

Type	POWER RATING	Size	Dimensions(mm)				
			L	D	C	S	
						Max.	Min.
CRM	1/8W	0204	3.5±0.2	1.45±0.1	0.6±0.1	1.40	1.20
	1/4Ws						
CRM	1/4W 1/2Ws 1Wss	0207	5.7±0.2	2.2±0.1	0.8±0.2	2.30	2.00
CRH	1Ws	0309	9.5±0.3	3.6±0.3	2.2±0.2	0.4±0.1	
	2Ws	0411	11.2±0.3	4.7±0.3	2.6±0.2	0.5±0.1	
	3Ws	0515	15.2±0.3	5.3±0.3	2.6±0.2	0.5±0.1	

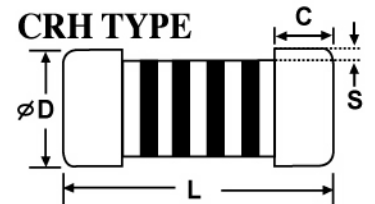
Range

Type	POWER RATING	Size	MAX. RATING VOLTAGE	MAX. OVERLOAD VOLTAGE	RESISTANCE RANGE E-24: G(2%); J(5%)
CRM	1/8W	0204	200V	400V	2.2 Ω ~ 1M Ω
	1/4Ws		250V	500V	
CRM	1/4W	0207	250V	500V	1.0 Ω ~ 2.2M Ω
	1/2Ws		300V	600V	
	1Wss		400V		
CRH	1Ws	0309	500V	1000V	1.0 Ω ~ 10M Ω
	2Ws	0411			
	3Ws	0515			

CRM TYPE



CRH TYPE



Coating color: Beige.

Rated-Voltage = $\sqrt{P(W) \times R(\Omega)}$ or Max. working voltage, whichever lower.

Characteristics

Item	Characteristics					Test Method
Operating Temp. Range	-55°C~155°C					
Temperature Coefficient	SIZE	+350~-450	0~-700	0~-1000	0~-1300	JIS-C-5202; 5.2
	0204	1.0Ω~47KΩ	51KΩ~220KΩ	240KΩ~470KΩ	510KΩ~1.0MΩ	
	0207	1.0Ω~100KΩ	110KΩ~100KΩ	360KΩ~1.0MΩ	1.1MΩ~2.2MΩ	
Short time overload	±1%					Rating voltage X 2.5 or Max. overload Voltage for 5 sec. Whichever less
Pulse overload	±2%					Rating voltage X 4 or Max. pulse Overload voltage for 10,000 cycle (1 sec. "on" 25 sec. "off"), Whichever less
Temperature cycling	±1%					-55°C(30min.)/+85°C(30min.) for 5 cycle
Load Life in Humidity	±5%					40°C±2°C, 90%~95% RH, 1000h, 1.5h "on"/0.5h "off" cycle
Load Life	±5%					70°C±2°C, 1000h, 1.5h "on"/0.5h "off" cycle
Resistance to soldering heat	±2%					260°C±5°C, 5 sec±1 sec
Solderability	90% Coverage/Min					235°C±5°C, 2 sec±0.5 sec
Bending test	±1%					Holding point width 90mm, Bending 5mm, 1 time
High Temp. exposure	±2%					150°C±5°C, 2 hours
Non-Combustibility	The resistors shall withstand Overload test in accordance With Article UL-94, V-0 without producing a fire hazard.					

Packaging

Size	TAPE/REEL	BULK	CARTON
0204	3000pcs	-----	-----
0207	2000pcs	-----	-----
0309	2000pcs	2000pcs	20000pcs
0411	1500pcs	1000pcs	10000pcs
0515	NON	500pcs	5000pcs