

Carbon Film Melf Resistors

Token Carbon Film MELF (RDM) is The Cost-Effective Option

▶ Preview

Commercial grade low power carbon film resistors offer high quality performance for applications that do not require surge protection or precision tolerances.

Providing design engineers with an economical power resistor with high quality performance, Token Electronics now offers commercial grade low power carbon film resistors. Designated the RDM Series, the conformally coated resistors offer high quality performance for applications that do not require surge protection or precision tolerances.

The commercial grade carbon melf resistors are available in flame retardant packaging and have ideal specifications for consumer electronic or electrical devices. The RDM Series resistors offer a wide resistance range for devices with power ratings below 1W, delivering high quality performance for general purpose applications.

The RDM Series resistors are ideal for general use applications including electrical equipment, small appliances and consumer electronics, such as televisions and other high-volume products.

The RDM Series film resistors feature power ratings from 0.125 to 1W, with a resistance range from 1 Ω to 1M Ω . Standard tolerances for the devices are to $\pm 2\%$ and $\pm 5\%$ with TCRs as low as $\pm 300\text{ppm}/^\circ\text{C}$ for values of 1K Ω or less. Maximum working voltage ranges from 200V to 350V.

Contact our sales representative with your specific needs.

▶ Applications :

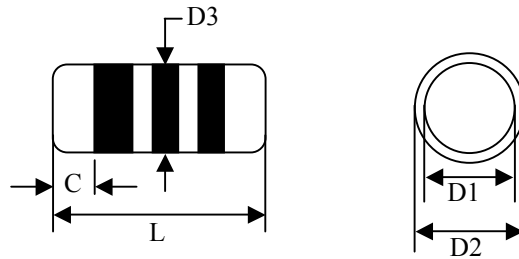
- Speciality carbon film technology. DIN: 0204, 0207, 0309.
- Coating color: Yellow; Marking: Color code (3 color band).
- Free direction for mounting due to cylindrical design. Electrodes strength is higher than flat chip resistors.
- Specially plated electrodes for high solderability. Lower current noise than flat chip resistors. Lead (Pb)-free and RoHS compliant.

▶ Applications :

- Home appliances, Electrical Equipment, Consumer electronics.



► Dimensions & Recommended Soldering Bath Dimensions



Type	RDM73S	RDM73P	RDM74S	RDM74P	RDM16M	RDM17S	RDM17P	
DIN-44061 type	0204	0204	0207	0207	0207	0309	0309	
Dimensions (mm)	L	3.5±0.2	3.5±0.2	5.9±0.2	5.9±0.2	5.9±0.2	8.5±0.2	8.5±0.2
	C (Min.)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	D1	1.40±0.15	1.40±0.15	2.2±0.1	2.2±0.1	2.2±0.1	3.2±0.2	3.2±0.2
	D2 (Max.)	1.55	1.55	2.4	2.4	2.4	3.4	3.4
	D3 (Max.)	1.25	1.25	2.1	2.1	2.1	3.0	3.0

► Characteristics

Type	RDM73S	RDM73P	RDM74S	RDM74P	RDM16M	RDM17S	RDM17P	
DIN-44061 type	0204	0204	0207	0207	0207	0309	0309	
Power Rating (W)	1/8	1/4	1/4	1/2	1	1/2	1	
Resistance Range (Ω) E24	1 ~ 1M							
Resistance Tolerance	G: ±2% J: ±5%							
Max. Working Voltage (V)	200	250	300	300	350	350	350	
Max. Overload Voltage (V)	400	500	600	600	700	700	700	
Packaging & Qty (pcs)	Case	180K	180K	96K	96K	96K	50K	50K
	Reel	3K	3K	2K	2K	2K	2.5K	2.5K

Item	Characteristics					Test Method	
	Type	TCR	0 ~ -350	0 ~ -600	0 ~ -1000		0 ~ -1500
Temp. Coefficient (PPM/°C)	>1/4W		<10K	11K~115K	160K~2M2	-	JIS-C(5202-5.2)
	1/8W		<1K	1K1~47K	51K~470K	510K~1M	
Short Time Overload	± (1.0% + 0.05Ω)					JIS-C(5202-5.5)	
Intermittent	± (1.0% + 0.05Ω)					JIS-C(5202-5.8)	
Resistance to Soldering	± (1.0% + 0.05Ω)					JIS-C(5202-6.4)	
Solderability	95% Coverage min					JIS-C(5202-6.5)	
Moisture Resistance	± (5.0% + 0.1Ω)					JIS-C(5202-7.9)	
Load Life	± (3.0% + 0.1Ω)					JIS-C(5202-7.10)	

▶ How to Order

RDM74P

❶

1R

❷

J

❸

TR

❹

❶ Product type: RDM73S, RDM73P, RDM74S, RDM74P, RDM16M, RDM17S, RDM17P

❷ Resistance Value:

Code	Resistance Value
1R2	1.2Ω
12R	12Ω
120R	120Ω
12K	12KΩ

❸ Resistance Tolerance (%)

Code	Resistance Tolerance
G	±2%
J	±5%

❹ Packaging

Code	Packaging
T	Taping Reel
P	Bulk

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