

## **Power Dissipation Mount Fixed Resistors**

### Performance Specification

Temperature Coefficient  $<20\Omega \pm 400 PPM/^{\circ}C; \ge 20\Omega \pm 350 PPM/^{\circ}C.$ 

Short Time Overload  $\pm (5.0\% + 0.05\Omega)$  Max, with no evidence of mechanical damage.

Dielectric Withstanding Voltage No evidence of flashover, mechanical damage, arcing or insulation breakdown.

Terminal Strength No evidence of mechanical damage.

Resistance to Soldering Heat  $\pm (1.0\% + 0.05\Omega)$  Max, with no evidence of mechanical damage.

Solderability Min. 95% coverage.

Temperature Cycling  $\pm (5.0\% + 0.05\Omega)$  Max, with no evidence of mechanical damage. Humidity (Steady State)  $\pm (3.0\% + 0.05\Omega)$  Max, with no evidence of mechanical damage.

Load Life in Humidity For Wire-wound range,  $\pm (5.0\% + 0.05\Omega)$ Max Load Life For Wire-wound range,  $\pm (5.0\% + 0.05\Omega)$ Max

#### Procedure: Ex.: PDM 25W,+/-5%, 100Ω, B/B Ρ 2 J W 1 0 0 D M 0 5 0 В Type: PDM = Power Dissipation Mount Fixed Resistors Resistance Value: E-24 series: 0 = Standard 1st digit is "W" = Wire-wound Wattage: 1 = Cement Filling 5W = 5W 2<sup>nd</sup> & 3<sup>rd</sup> digits are the significant S = Special AW = 10W figures of the resistance 25 = 25W 4th indicates the number of zeros: "J" ~ 0.1, "K" ~ 0.01 35 = 35W**Ex.:** $4.7\Omega \sim 47J$ , $4.7K\Omega \sim 472$ 50 = 50W 75 = 75W 85 = 85WA0 = 100W Tolerance: $J = \pm 5\%$ Packing Type: $K = \pm 10\%$ B = Bulk/BoxPacking Qty: 0 = Bulk/BoxAdditional Information: 0 = Standard

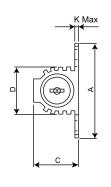


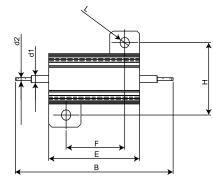
## ROYALOHM

# Power Dissipation Mount Fixed Resistors

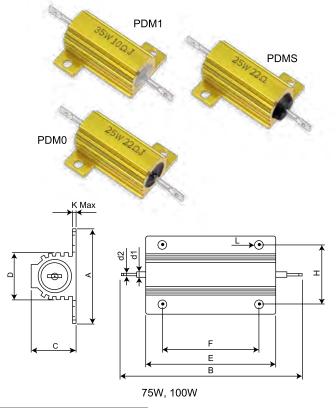
### **Features**

- Low inductance
- Safety flameproof construction
- Lightweight body with high power rating
- Application: Power supply, Adapter,
   Industrial application, Inverter





5W-50W, 85W



Style	A±1	B±2	C±1	D±1	E±1	F±1	H±1	K Max	L±0.5	d <sub>1</sub> ±0.2	d <sub>2</sub> ±0.2
PDM1 5W	16.5	34	8	8.5	15	10	12.5	2.5	2	0.8	-
PDM1 10W	22.5	33.5	10.5	10.5	20	13	15.5	3.2	3	2	8.0
PDM1 25W PDMS 25W	27	49	14	13.5	28	18	19	3.2	4	2	0.8
PDM1 35W	29	60	15.5	15.5	33	23	23.5	3.2	3.5	2	0.8
PDM1 50W PDMS 50W	30	75	16	15.5	50	40	21.5	3.2	3.5	2	0.8
PDM1 75W	47.5	88	26	27	66	36	37	3.7	4.5	2.3	1.1
PDM1 85W	29	100	15.5	15.5	75.5	40	20.5	3.2	3.5	2	0.8
PDM1 100W	48	120	26	27	98	72	37	3.7	4.5	2	0.8

Style	A±0.5	B±1	C±0.5	D±2	E±0.5	F±0.2	H±0.2	K Max	L±0.5	d <sub>1</sub> ±0.05	$d_2 \pm 0.2$
PDM0 5W	16	32.5	8	8	15.5	11	12	2.5	2	1	0.3
PDM0 10W	22.3	40.5	12.2	11	20.5	15.2	17.2	3.2	2.5	2	8.0
PDM0 25W	30.3	45.5	16.3	14	27.5	18.2	20.2	3.2	3	2	8.0
PDM0 35W	30.3	56.5	16.3	16.3	34.5	24.2	20.2	3.2	3	2	8.0
PDM0 50W	30.3	78.5	15.7	16.5	50.5	40.2	20.2	3.2	3	2	8.0

	leat F	Rise (	Char	t			
(i) (i)				_			
Temperature Heat Rise (°C) 000 000 000 000 000 000 000 000 000 0				100W			
E 130			//	75W, 85W			
월 100 <u></u>	_			35W, 50W 25W			
_ 05 eg	4			10W 5W			
lemp.			$\neg$	5W			
0	20 4	0 60	80	100			
Rated Load (%)							

Style	Power Rating at 70°C	Max Working Voltage	Lowest Ohmic Value	Standard Resistance Range	Highest Ohmic Value
PDM 5W	5W	200V	$\Omega$ 10.0	5.1Ω ~1ΚΩ	1.8ΚΩ
PDM 10W	10W	265V	$0.05\Omega$	5.1Ω ~1.5ΚΩ	5ΚΩ
PDM 25W	25W	550V	$0.05\Omega$	5.1Ω ~8.2ΚΩ	12ΚΩ
PDM 35W	35W	950V	$0.05\Omega$	5.1Ω ~8.2ΚΩ	15ΚΩ
PDM 50W	50W	1250V	$0.05\Omega$	5.1Ω ~20KΩ	35ΚΩ
PDM 75W	75W	1400V	$0.05\Omega$	0.1Ω ~20ΚΩ	35ΚΩ
PDM 85W	85W	1400V	0.05Ω	0.1Ω ~20ΚΩ	35ΚΩ
PDM 100W	100W	1900V	$0.05\Omega$	1Ω~3KΩ	-

Note: Part no PDMS special 25W, 50W only.

Above 100W available on case to case basis.

