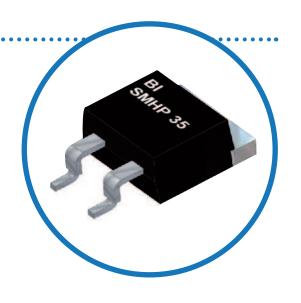
MODEL SMHP 35



SMHP 35 Series

- 35W High Power Resistors
- TO-263 Surface Mount
- RoHS Compliant.
- Non-Inductive, Small, 35 watt high power resistor.
- TO-263 surface mount package offering a very low thermal resistance.
- Small thin package for high density PCB installation.
- Fully RoHS reflow profile compliant.
- High frequency emitter resistors in switching power supplies.
- High precision CRT colour video amplifiers.
- High frequency snubber and pulse handling circuits.
- Pulse generator load resistors.
- In-rush current protection.
- Bleeder Resistors.



Electrical

ITEMS	SPECIFICATION			TEST CONDITIONS
Power Rating	35 watt			-55°C to +25°C Flange Temperature
rower nating	2 watt			Without Heatsink
Thermal Resistance	3.3°C/ W			Resistor Hotspot to Flange
Resistance Range	0.01 - 0.09Ω	0.1 - 9.1Ω	10 - 51ΚΩ	
Nominal Resistance Series	E6	E24	E24	Including 2.5Ω and 5.0Ω
TCR (ppm/°C)	250	100	50	For -55°C to +155°C
Tolerance	±5%	±1% & ±5%	±1%	
Operation Temperature Range	-55°C to +155°C			
Maximum Operating Voltage	500V or √PR			
Dielectric Withstanding Voltage	2000 Vdc			60 Seconds
Load Life	$\Delta R = \pm 1\% + 0.5\Omega$			25°C, 90 min ON, 30 min OFF, 1000 Hours
Humidity	$\Delta R = \pm 1\% + 0.5\Omega$			40°C, 90 - 95%RH,DC 0.1W, 1000 Hours
Temperature Cycle	$\Delta R = \pm 0.25\% + 0.5\Omega$			-55°C, 30 min, +155°C, 30 min, 5 cycles
Soldering Heat (Max.)	$\Delta R = \pm 1\% + 0.5\Omega$			350 ± 5°C, 3 seconds
Solderability	Minimum 90% Coverage			230 ± 5°C, 3 seconds
Insulation Resistance	Over 1,000 MΩ			Between Terminals and Tab
Vibration	$\Delta R = \pm 0.25\% + 0.5\Omega$			

Notes:

- 1. Electrically isolated metal tab.
- 2. Contact Factory for custom products, non-standard values and tolerances
- 3. Current Rating: 25A Maximum.

General Note

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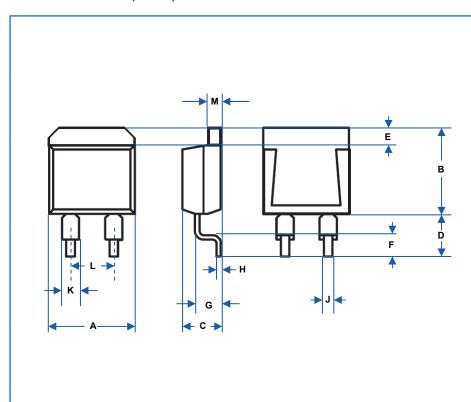


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SMHP 35 Series

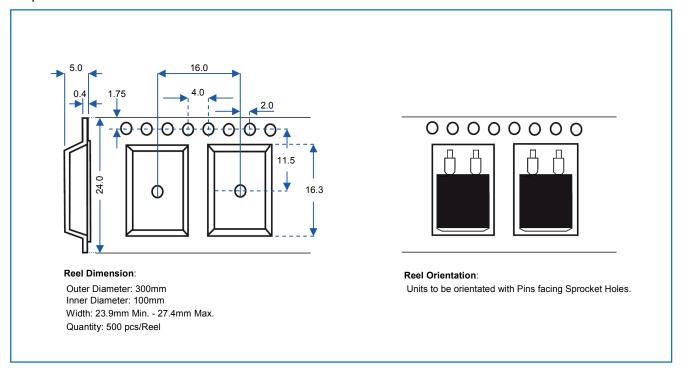


Dimensions (mm)



SMHP				
А	10.1	± 0.2		
В	10.3	± 0.2		
С	4.5	± 0.2		
D	5.0	± 1.0		
E	2.2	± 0.2		
F	2.5	± 0.5		
G	2.75	± 0.2		
Н	0.5	± 0.05		
J	0.75	± 0.05		
K	1.5	± 0.05		
L	5.08	± 0.10		
М	1.5	± 0.05		

Tape Dimensions & Orientation



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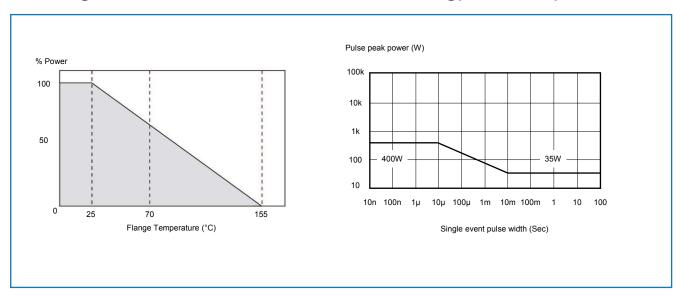


SMHP 35 Series

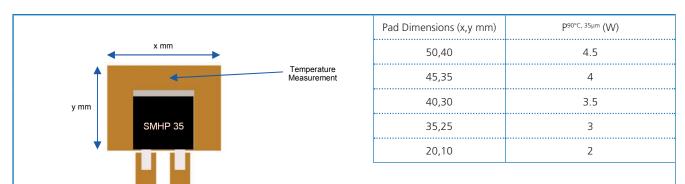


Derating Curve

Pulse Energy Durability



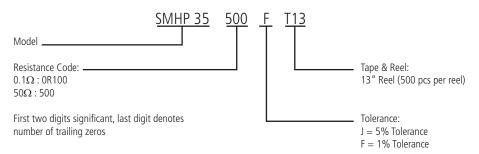
FR4 Thermal PCB Characterisation



Notes:

Characterisation carried out using 35µm PCB Copper pad weights, with the temperature of 90°C used as a maximum reference on the PCB. P90°C, 35µm (W) is power when the measurement point reaches 90°C.

Ordering Information



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