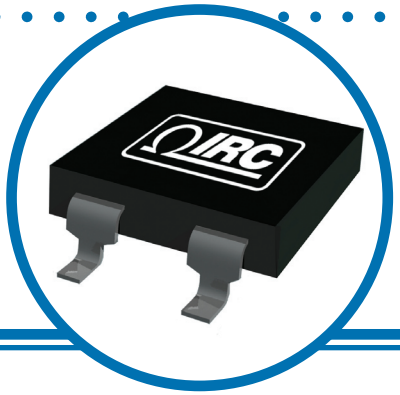
Surface Mount TO-263AB Power Resistor

TT electronics
IRC Advanced Film Division

SMHP Series

- RoHS compliant
- Popular D2PAK TO263 package
- Resistance values down to 0.010Ω
- Non-inductive thick film construction
- Suitable for board mounting with either solder or clip
- High frequency snubber and pulse handling circuits



Electrical Data

Item	Specification			Test Condition
Resistance Range	0.01Ω to 0.09Ω	0.1Ω to 9.1Ω	10Ω to 220Ω	Up to 51KΩ also available
Tolerance	±5%	±1%, ±5%	±1%	
TCR (ppm/°C)	250	100	50	-55°C to +155°C
Nominal Resistance Series	E6	E12	E24	Including 2.5Ω and 5.0Ω
Thermal Resistance	3.3°C/W			Resistor hot spot to flange
Power Rating	20W			-55°C to +25°C flange temperature
Operating Temperature Range	-55°C to +155°C			
Maximum Operating Voltage	500V not to exceed $\sqrt{P \times R}$			
Dielectric Widthstanding Voltage	2000 VDC			60 seconds
Load Life	ΔR = ±1.0% + 0.5Ω			25°C, 90 min. ON; 30 min. OFF 1000 hours
Humidity	ΔR = ±1.0% + 0.5Ω			40°C, 90% to 95%RH, DC 0.1W, 1000 hours
Temperature Cycle	ΔR = ±1.0% + 0.5Ω			-55°C, 30 min., +155°C, 30 min., 5 cycles
Soldering Heat (Max)	ΔR = ±1.0% + 0.5Ω			250±5°C, 3 seconds
Solderability	Min. 90% coverage			230±5°C, 3 seconds
Insulation Resistance	Over 1000MΩ			Between terminals and tab
Vibration	ΔR = ± 0.25% + 0.5Ω			

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IRC
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TT electronics plc
SMHP Series Issue April 2007

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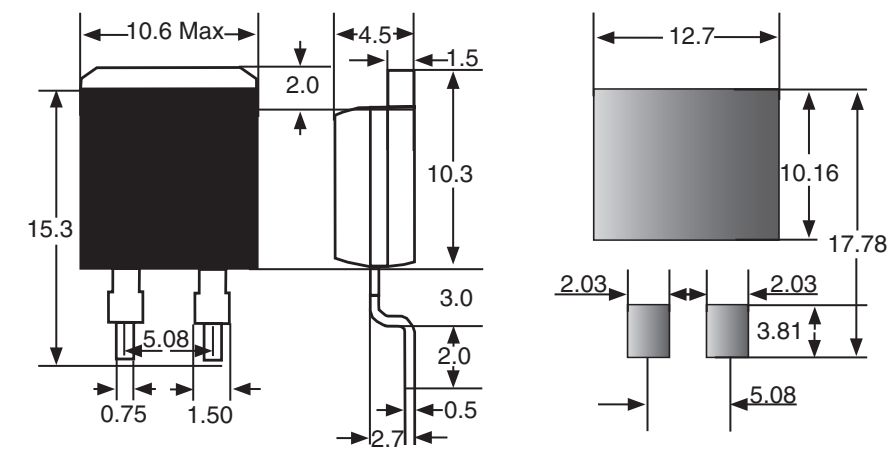
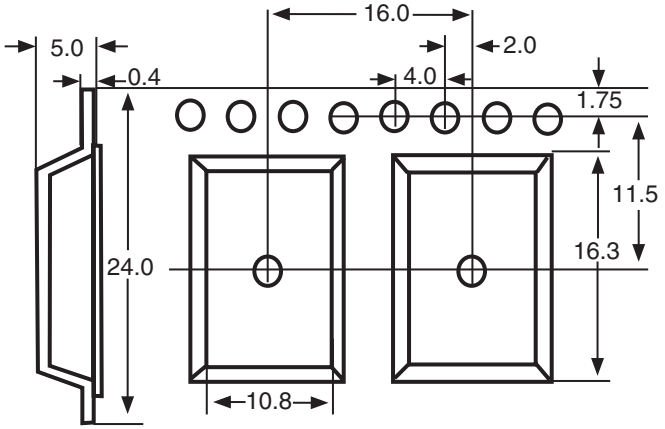
Physical Data

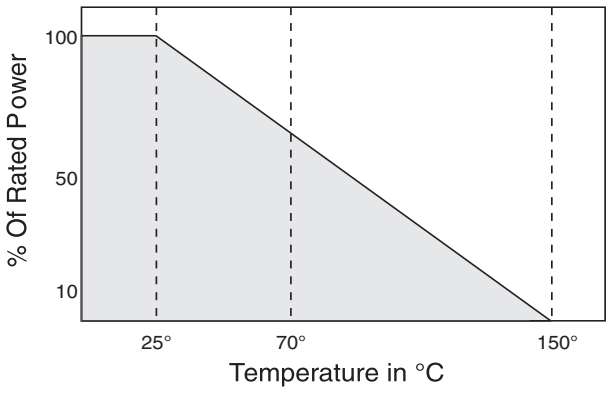
Dimensions (mm)



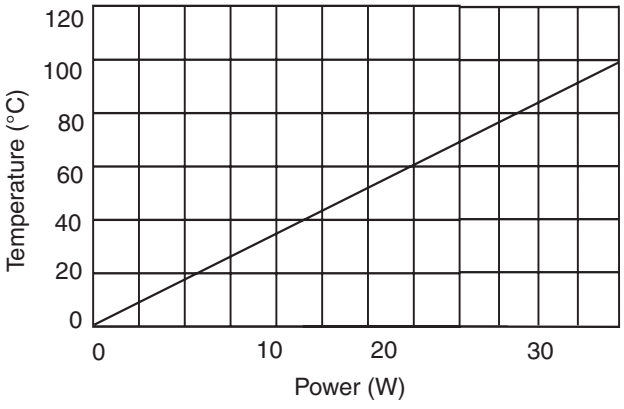


Reel Dimensions	
Outer Diameter	300 mm
Inner Diameter	100 mm
Width	27.4 mm max
Quantity	500pcs/reel

Power Derating Data



Temperature Rise Data



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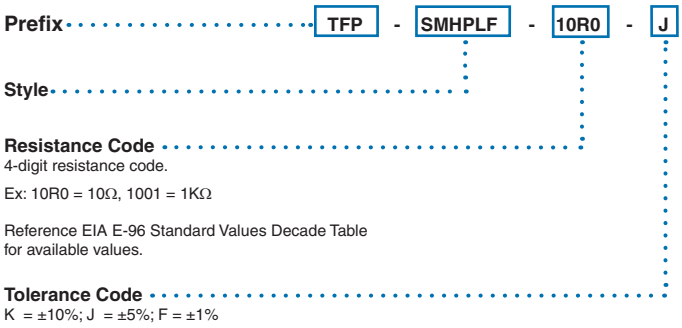
Ordering Data



Note: 1% tolerance available above 0.1Ω

For additional information or to discuss your specific requirements, please contact our Applications Team using the contact details below.