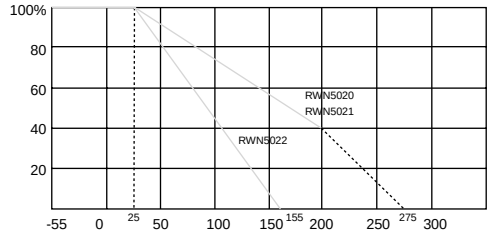
Series: RWN

FEATURES

- Ideal for All Types of Current Sensing
- Resistance Values Down to 0.003 Ohms
- Highly Stable in Auto-placement Surface Mounting Applications
- Low Inductance
- High Speed Logic Circuits

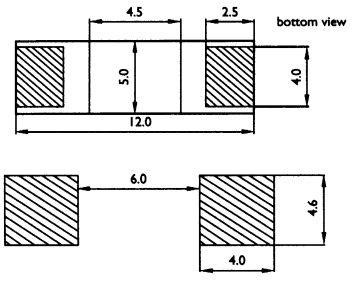
DERATING CURVE

Rated Load



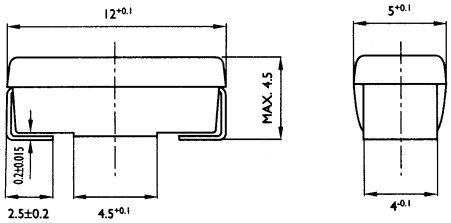
Ambient Temperature (°C)

LAY-OUT



DIMENSIONS

Unit: mm



ELECTRICAL CHARACTERISTICS

STYLE	RWN5020	RWN5021	RWN5022
Power Rating at 70°C	2.5W	2.5W	1.5W
Operating Temp. Range	-55°C ~ 275°C	-55°C ~ 275°C	-55°C ~ 155°C
Derated to 0 Load at	275°C	275°C	155°C
Resistance Range	0.003Ω ~ 0.05Ω	0.051Ω ~ 9.1Ω	10Ω ~ 10MΩ
Temperature Coefficient	±200ppm/°C	-80 ~ ±200ppm/°C	±50ppm/°C
Resistance Tolerance	±1%, ±5%		

*RWN5020: SMD Low-Ohmic Power Resistors
*RWN5021: SMD Power Wirewound Resistors
*RWN5022: SMD Power Metal Film Resistors

ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD		APPRAISE
Temperature Coefficient	MIL-STD-202F, Method 304	-55°C to +125°C	by Type
Thermal Shock	MIL-STD-202F, Method 107	5 Cycles, -55°C to +125°C	±0.5%
Low Temperature Operation	MIL-R-55342D, Para. 4.7.4	One Hour at -55°C Followed by 45 Minutes RCWV	±0.5%
Short Time Overload	MIL-R-55342D, Para. 4.7.5	2.5 Times RCWV for 5 Seconds	±0.5%
High Temperature Exposure	MIL-R-55342D, Para. 4.7.6	125°C for 100 Hours	±0.5%
Resistance to Soldering Heat	MIL-R-55342D, Para. 4.7.7	Soldered to Test Board at 260°C for 10 Seconds	±0.25%
Moisture Resistance	MIL-STD-202F, Method 106	40 Cycles. Total 240 Hours	±0.5%
Life	MIL-STD-202F, Method 108A	1000 Hours at 70°C RCWV Intermittent	±1%
Solderability	MIL-STD-202F, Method 208	230°C for 5 Seconds	95% min. coverage