

SPJ1000 Series

High Temperature Wirewound Power Resistors

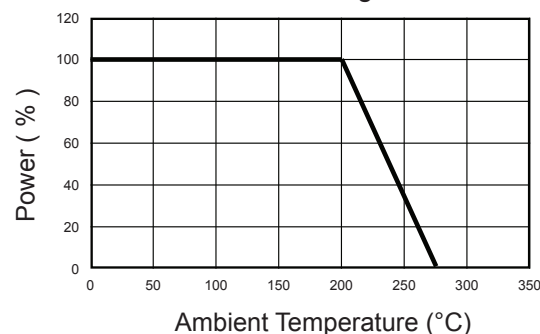


- Temperature Conditioned for Improved High Temperature Performance & Stability
- Resistances from 0.02 to 260kOhms
- 100% Maximum Power Up To 200°C
- Power Rating 0.1 to 10Watts
- Resistance Tolerances to $\pm 0.5\%$
- Low TCR: $\pm 20\text{ppm/K}$ Standard
- Excellent Pulse Handling
- Non-Inductive Windings Available

SPECIFICATIONS

Specification	Value
Tolerances	$\pm 0.5\%$ to $\pm 10\%$ (1% Standard)
Temperature Coefficient	>10 Ω : $\pm 20\text{ppm/K}$ 1 Ω to 10 Ω : $\pm 50\text{ppm/K}$ <1 Ω : Call Factory
Temperature Range	-55°C to +275°C
Dielectric Strength	500 VAC : SPJ1004/SPJ1010 1000 VAC : All Others
Constuction	Centerless ground ceramic core Tinned copper or copperweld leads High temperature / trivalent / inorganic Silicone coating All welded terminations
Environmental Performance (MIL-STD 202)	ΔR
Dielectric	$\pm 0.2\% + 0.05\Omega$
Load Life	$\pm 2\% + 0.05\Omega$
Storage	$\pm 0.2\% + 0.05\Omega$
Moisture Resistance	$\pm 0.2\% + 0.05\Omega$
Thermal Shock	$\pm 0.2\% + 0.05\Omega$
5X Overload (5s)	$\pm 0.2\% + 0.05\Omega$
Shock	$\pm 0.1\% + 0.05\Omega$
Vibration	$\pm 0.1\% + 0.05\Omega$

Power Derating Curve

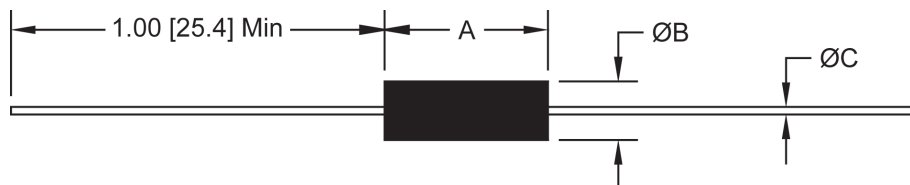


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SPECIFICATIONS (continued)



Type ³	Wattage Rating (Watts)	Maximum Ohms ²	Dimensions			Maximum Working Voltage	MIL-R-26 / MIL-R-39007 Style
			A ±0.062" [±1.6mm]	B ±0.031" [±0.8mm]	C ¹ ±0.002" [±0.05mm]		
SPJ1004	0.4	2.5k	0.250 [6.4]	0.078 [2.0]	0.020 [0.5] 0.025 [0.6]	20	
SPJ1010	1.0	10k	0.406 [10.3]	0.094 [2.4]	0.020 [0.5] 0.025 [0.6]	52	RW-70
SPJ1030	3.0	22k	0.560 [14.2]	0.187 [4.7]	0.032 [0.8]	140	RW-79 RWR-79
SPJ1050	5.0	91k	0.875 [22.2]	0.312 [7.9]	0.040 [1.0]	360	RW-74 RWR-74
SPJ1070	7.0	154k	1.220 [31.0]	0.312 [7.9]	0.040 [1.0]	620	
SPJ1100	10	260k	1.780 [45.2]	0.375 [9.5]	0.040 [1.0]	850	RW-78 RWR-78

¹ Lead Diameter: 18 AWG = 0.040" / 20 AWG = 0.032" / 22 AWG = 0.025" / 24 AWG = 0.020" / 25 AWG = 0.018"

Where more than one lead is listed / the top value is Standard

² For non-inductive windings / divide maximum resistance by 2

³ Other sizes available upon request

Contact:



JOULE SALES & MARKETING

2801 Oakmont Drive, #600
Round Rock, TX 78665
512.354.8655 OFFICE 866.354.8160 TOLL FREE
joulesales.com

Distributed by:



512.310.8858 • 800.310.3050
sales@trendsetter.com
www.trendsetter.com

Ordering Information

Part Number - Resistance - Tolerance - TCR (If not standard)

Example: SPJ1050 25kOhms 0.1%