Data Sheet for Precision Resistor

Power Resistor (wirewound) — Series SUT

- Power ratings up to 15 Watts
- Compact design
- Good pulse handling
- Resistor tolerances from 0.01% bis 10%
- TCR up to ±20 ppm/°C
- Non-inductive windings (Option)
- Resistance range from 0.01Ω..260kΩ

Electrical Specification	SUT						
	1*	2*	3*	5	7*	10	12
Resistance range from 0,01Ω..	..3.4kΩ	..7.5kΩ	..12.5kΩ	..32kΩ	..95kΩ	..150kΩ	..260kΩ
Resistance tolerance	±0,01%..±10%						
Power rating (0W @ +250°C)	1W	1.5W	3W	5W	7W	10W	15W
Max. working voltage	33V	42V	135V	194V	425V	607V	1050V
TCR-rate	±20ppm/°C @ R > 10Ω ±50ppm/°C @ R = 1Ω..10Ω ±90ppm/°C @ R < 1Ω						
Working temperature range (max.)	-55 °C up to +250 °C						
*MIL-R-26 / MIL-R-39007	RW-81	RW-82	RW-80	--	RW-84	--	--

Mechanical Specification	
Resistance technology / material	Wirewound / wire alloy
Housing material	Inorganic Silicone
Connections	Axial cooper tinned

Parameters	Test Conditions (MIL-STD 202)	Specification ΔR
Dielectric	See norm	±0.2% +0.05Ω
Load life	See norm	±1% dep. on resistance value
Storage	See norm	±0.2% +0.05Ω
Moisture resistance	See norm	±0.2% +0.05Ω
Thermal shock	See norm	±0.2% +0.05Ω
5X Overload (5s)	See norm	±0.2% +0.05Ω
Shock	See norm	±0.1% + 0.05Ω
Vibration	See norm	±0.1% + 0.05Ω
Dielectric strength: 1000 VAC (500 VAC @ SUT1, SUT2)		

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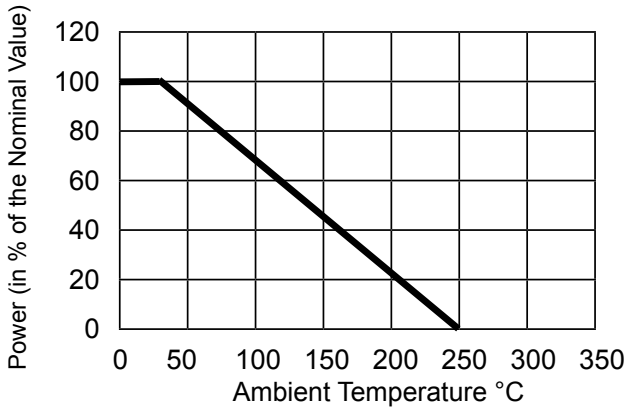
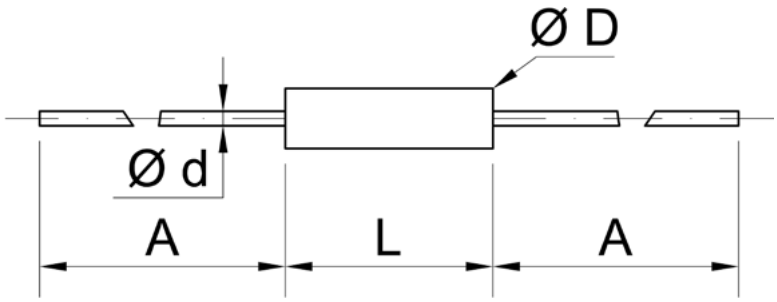
Power Derating Curve



Drawing



SUT	A (min.)	L (±1.6)	ØD (±0.8)	d (±0.05)
1	25.4	6.4	2.2	0.5
2	25.4	7.9	2.0	0.5
3	25.4	8.9	4.0	0.8
5	25.4	12.7	6.4	1.0
7	25.4	22.2	7.9	1.0
10	25.4	31.0	7.9	1.0
12	25.4	45.2	9.5	1.0

Dimensions in mm

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Order code						
Description	Selection: **standard=black/bold**, possible *options=grey/italic*					
Series:	**SUT**					
Type / size: **1 (max. 3,4kΩ)** **2 (max. 7,5kΩ)** **3 (max. 12,5kΩ)** **5 (max. 32kΩ)** **7 (max. 95kΩ)** **10 (max. 150kΩ)** **12 (max. 260kΩ)**		**1** **2** **3** **5** **7** **10** **12**				
Resistance tolerance: **±0,02%** **±0,05%** **±0,1%** **±0,25%** **±0,5%** **±1%** **±5** **±10%** *Option ±0,01%*			**W0,02%** **W0,05%** **W0,1%** **W0,25%** **W0,5%** **W1%** **W5%** **W10%** *W0,01%*			
Temperature coefficient: **±20ppm/°C @ R >10Ω** **±50ppm/°C @ R =1Ω..10Ω** *Option ±90ppm/°C @ R <1Ω*				**TK20** **TK50** *TK90*		
Resistance value - please choose: **From 0,01Ω bis ≤ see type**					**xxxkxxx**	
Option non-inductive windings: *max. resistance value / 2*						*N*

Order Example	Series	Type	Resistance tolerance	Temperature coefficient	Resistance value	Inductance
Choice	SUT	3	±0.1%	20ppm/°C	10,1kΩ	Standard
Code	SUT	3	W0.1%	TK20	10k100	-