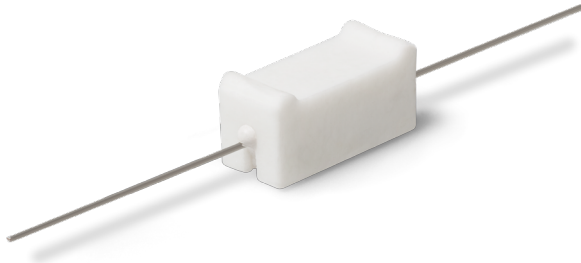


Data Sheet for Precision Resistor

Power Resistor in Ceramic Housing (wirewound)

Series MCU



- Wirewound resistor, inorganic construction
- Power rating up to 15 Watt
- Resistance values from 0,01Ω..90kΩ
- Resistance tolerances up to ±0,01%
- TCR ±20ppm/°C R>10Ω
- Non-inductive windings (option)
- Flame proofed
- With spacer (option)

Electrical Specification	MCU				
	1	2	3	4	5
Resistance range	0,01Ω..12kΩ	0,01Ω..22kΩ	0,01Ω..45kΩ	0,01Ω..65kΩ	0,01Ω..91kΩ
Resistance tolerance	±0,01%..±10%				
Power rating @ 70°C (0W @ +275°C)	2W	3W	5W	10W	15W
TCR-rate	±20ppm/°C @ R > 10Ω, ±50ppm/°C @ R ≥ 1Ω..10Ω (±90ppm/°C @ R < 1Ω on request)				
Working temperature range (max.)	-55..+275°C				

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

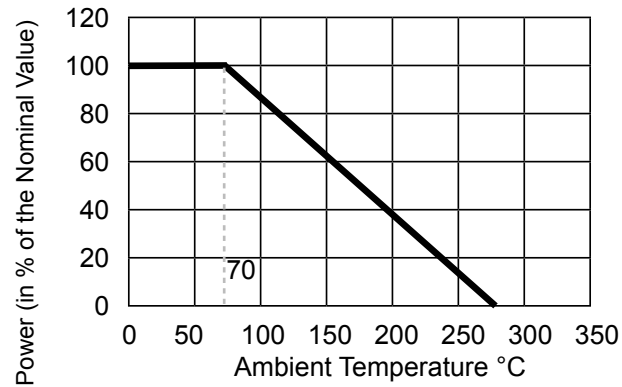
Parameters	Test Conditions (MIL-STD 202)	Specification
Dielectric	See norm	±0,2% +0,05Ω
Load life	See norm	±1% +0,05Ω
Storage	See norm	±0,2% +0,05Ω
Moisture resistance	See norm	±0,2% +0,05Ω
Thermal shock	See norm	±0,2% +0,05Ω
5X Overload (5s)	See norm	±0,2% +0,05Ω
Shock	See norm	±0,1% + 0,05Ω
Vibration	See norm	±0,1% + 0,05Ω
Dielectric strength: 1500 VAC		

Data Sheet for Precision Resistor

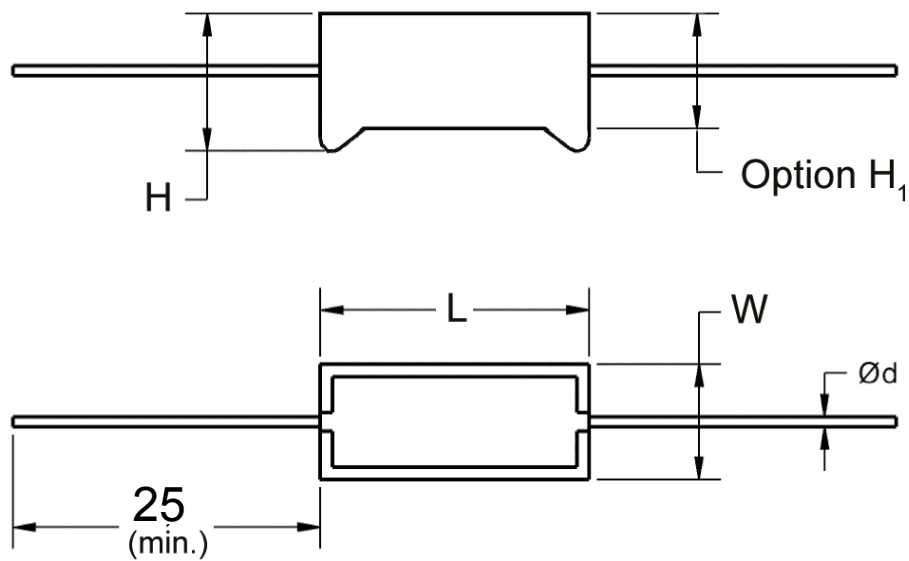
Power Resistor in Ceramic Housing (wirewound)

Series MCU

Power Derating Curve



Technical Drawing



Dimensions

	L ±1,0	H ±1,0	H₁ ±1,0 Option (with spacer)	W ±0,4	Ø d ±0,4
MCU-1	17,8	6,2	7,6	6,5	0,8
MCU-2	22,2	7,9	9,5	7,9	0,8
MCU-3	22,2	9,5	11,1	9,5	0,8
MCU-4	48	9,5	12,7	9,5	1,0
MCU-5	48	12,7	15,9	12,7	1,0

Dimensions in mm

Data Sheet for Precision Resistor

Power Resistor in Ceramic Housing (wirewound)

Series MCU

Order code						
Description		Selection: standard=black/bold, possible options=grey/cursive				
Series:	MCV					
Type / size:						
1 (max. 12kΩ)		1				
2 (max. 22kΩ)		2				
3 (max. 45kΩ)		3				
4 (max. 65kΩ)		4				
5 (max. 91kΩ)		5				
Resistance tolerance:						
±0,02%			W0,02%			
±0,05%			W0,05%			
±0,1%			W0,1%			
±0,25%			W0,25%			
±0,5%			W0,5%			
±1%			W1%			
±5%			W5%			
±10%			W10%			
Option ±0,01%			W0,01%			
Temperature coefficient:						
±20ppm/°C @ R >10Ω				TK20		
±50ppm/°C @ R ≥ 1Ω..10Ω				TK50		
Option ±90ppm/°C @ R < 1Ω				TK90		
Resistance value - please choose:						
From 0,01Ω bis ≤ see type					xxkxxx	
Option non-inductive windings:						
max. resistance value / 2						N
Option spacer:						H1

Order Example	Series	Type	Resistance tolerance	Temperature coefficient	Resistance value	Inductance	Spacer
Choice	MCU	1	±1%	20ppm/°C	10,1kΩ	Standard	Yes
Code	MCU	1	W1%	TK20	10k100	-	H1