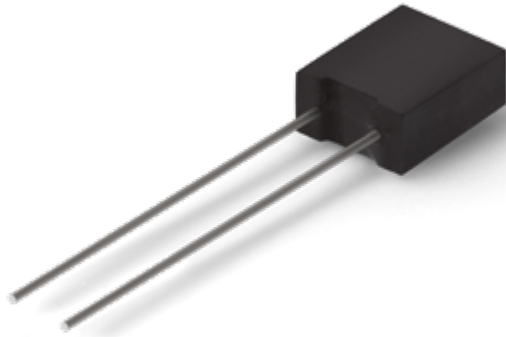


Data Sheet for Precision Resistors

Metal Film Resistor (thin film)

Series UMX



- Universal precision resistor
- Resistance values from 10Ω..1MΩ
- TCR rate up to ±5ppm/°C
- Power rating up to 0.5 Watts @ 70°C
- Non-inductive and non-capacitive design
- Encapsulated epoxy housing

Electrical Specification	UMX 30	UMX 50
Resistance range	50Ω..100kΩ	10Ω..1MΩ
Resistance tolerance	±0.05%..±0.2%	
Power rating @ 70°C (0W @ +125°C)	0.25 W	0.5 W
Max. working voltage	350V	500V
TCR-rate	±5ppm/°C..±25ppm/°C	
Working temperature range (max.)	-55 °C up to +125 °C	

Mechanical Specification

Resistance technology / material	Metal thin film
Housing material	Epoxy moulded
Connections	Radial brass tinned

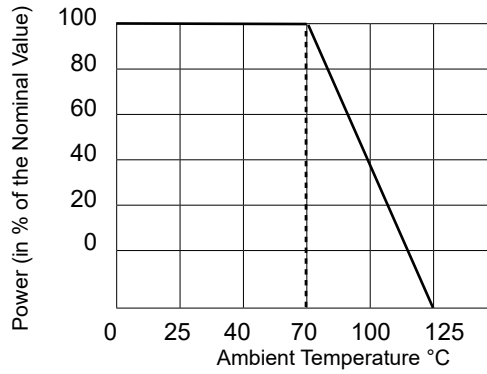
Parameters	Test Conditions (MIL-STD-202, JSS 50401, MIL-PRF-SS452)	Specification
Short time overload	2.5 x rated voltage, 5 sec.	ΔR ±0.05%
Life span	70°C, rated power, 90 min. on 30 min off, 1000 h	ΔR ±0.1%
High temperature / humidity	+65°..-10°C, 90..100% RH rated voltage, 10 cycles, 240h	ΔR ±0.1%
Temperature shock	-55°C. (30 min) +125°C (30 min), 5 cycles	ΔR ±0.05%
Solderability	235°C, 2 sec.	Coverage > 95%
Resistance to soldering heat	350°C, 3 sec.	ΔR ±0.03%
Isolation resistance	300 ±VDC, 1 min.	10GΩ
Noise		<-43 dB

Data Sheet for Precision Resistors

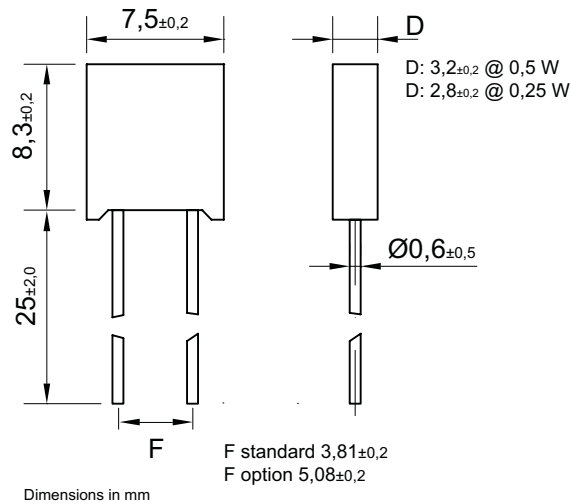
Metal Film Resistor (thin film)

Series UMX

Power Derating Curve



Technical Drawing



Data Sheet for Precision Resistors

Metal Film Resistor (thin film)

Series UMX

Order code

Description	Selection: standard=black/bold , possible <i>options=grey/italic</i>				
Series:	UMX				
Power rating: 0.25W (connections 3.81 mm) 0.50W (connections 5.08 mm)		30 50			
Resistance tolerance: ±0.05% ±0.1% ±0.2%			W0,05% W0,1% W0,2%		
Temperature coefficient:: ±5ppm/°C ±10ppm/°C ±15ppm/°C ±25ppm/°C				TK5 TK10 TK15 TK25	
Resistance value - please choose: From 50Ω to ≤ 100kΩ for 0.3W From 10Ω to ≤ 1MΩ for 0.5W					xxxkxxx xxxxkxxx

Order Example	Series	Power rating	Resistance tolerance	Temperature coefficient	Resistance value
Choice	UMX	0.25 W	±0.1%	5ppm/°C	10.1kΩ
Code	UMX	30	W0,1%	TK5	10k100