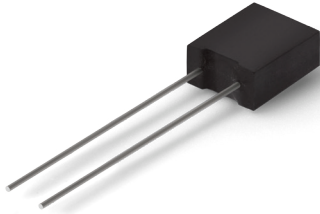


# Resistors

Precision - Metal Film Resistor

UMX - series



- Precision Resistor for universal Purposes
- Any Value from 5Ω - 1MΩ
- Standard TCR ±5ppm/K
- Power Rating up to 0,5 Watts at 40°C
- Low Inductance
- Encapsulated Housing

## Specification

Power	0,25 Watts	0,5 Watts
Resistance Range	5Ω - 1M	20Ω - 1M
Tolerances	25Ω - 500k: 0,05% 0,1%; 0,2%; 0,5%; 1% 5Ω - 1M: 0,05% 0,1%; 0,2%; 0,5%; 1%	20Ω - 1M: 0,05% 0,1%; 0,2%; 0,5%; 1%
Temperature Coefficient	25Ω - 50kΩ: 5ppm/K 5Ω - 1M: 10, 15, 25ppm/K	100Ω - 100kΩ: 5ppm/K 10Ω - 1M: 10, 15, 25ppm/K
Temperature Range	-55°C to +125°C	
Insulation Resistance	10GOhm	
Operating Temperature	(max.) 135°C	
Operating Voltage	200VDC	300VDC

## Mechanical Data

Resistance Element	NiCr
Carrier	Ceramic
Construction	Radial leaded
Leads	Copper, Tin plated

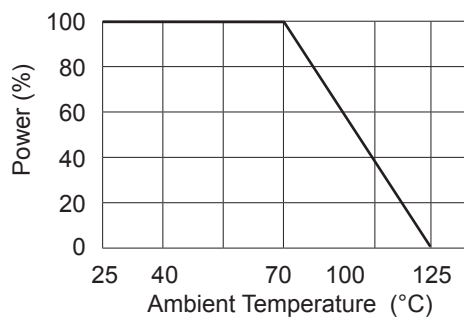
Parameter	Test	UMX
Overload	2,5 x Related Power, 5 sec.	±0,05%
Solderability	235°C, 2 sec.	> 95% Covered
Soldering Heat Resistance	260°C, 10 sec.	±0,03%
Quick Temperature Change	-55°C to +125°C, 5x	±0,05%
Damp Heat, Constant	40°C, 90% r. H., 1000h	±0,1%
Stability (70°C)	Related Power, 90 min ON, 30 min OFF, 1000h	±0,1%
Insulation Resistance	300VDC, 1min.	>10 GOhm
Moisture Resistance	+65°C to -10°C, 90 - 100% RH, Related Voltage, 10 Cycles, 240h	±0,1%
Current Noise		< -43dB

# Resistors

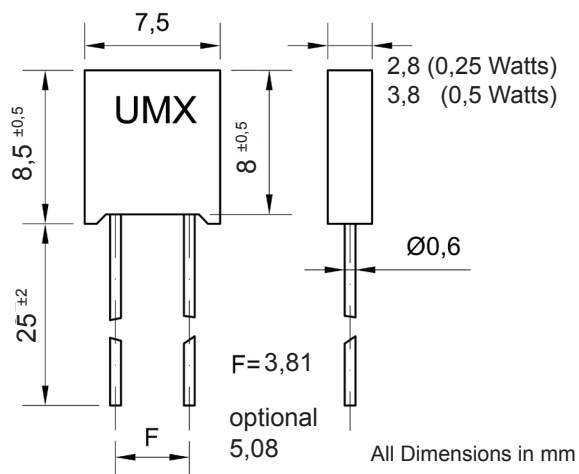
## Precision - Metal Film Resistor

## UMX - series

### Power Derating Curve



### Technical Drawing



### Options

Power	0,25Watts / 0,5 Watts
Lead Pitch	5,08mm

### Ordering Information

UMX	W0,1%	TK10	10k000	0,25
Type	Resistance Tolerance	Temperature Coefficient	Resistance Value	Power
	10Ω - 5M: ±1	20Ω - 510k: ±10ppm	(5Ω - 1M)	0,25 Watts
	20Ω - 5M: ±0,5; ±1	20Ω - 510k: ±15ppm		0,5Watts
	50Ω - 5M: ±0,1; ±0,25; ±0,5; ±1	10Ω - 5M: ±25ppm		
	240Ω - 510k: ±0,05			