

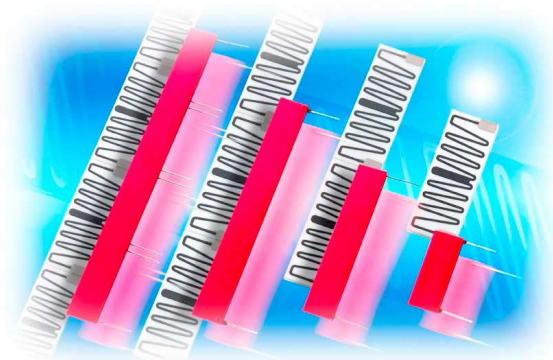


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Ultra-Mox Series

High Voltage, Thick Film



FEATURES

- High voltage resistors in thick film technology
- Radial leads, variable lead spacing by bending
- Climatic protection by silicone coating
- Special versions possible
- Resistance values up to 10 teraohm
- Low values of TCR and VCR

SERIES SPECIFICATIONS

Series	Power Rating	Working Voltage	Resistance Range	Tolerance	TCR	VCR
UM025	1.0	15KV	1M-100M	0.25-10%	25, 50, 100	1ppm/V
			>100M-1G	1-20%	50, 100, 250	2ppm/V
			>1G-100G	5-30%	250, 500	10ppm/V
			>100G-1T	5-30%	500, 1000	50ppm/V
UM030	1.0	10KV	1M-100M	0.25-10%	25, 50, 100	2ppm/V
			>100M-1G	1-20%	50, 100, 250	5ppm/V
			>1G-100G	5-30%	250, 500	20ppm/V
			>100G-1T	5-30%	500, 1000	100ppm/V
UM040	1.2	20KV	1M-100M	0.25-10%	25, 50, 100	1ppm/V
			>100M-1G	1-20%	50, 100, 250	2ppm/V
			>1G-100G	5-30%	250, 500	10ppm/V
			>100G-1T	5-30%	500, 1000	50ppm/V
UM050	3.0	30KV	1M-100M	0.25-10%	25, 50, 100	1ppm/V
			>100M-1G	1-20%	25, 50, 100	1ppm/V
			>1G-100G	5-30%	100, 250	5ppm/V
			>100G-1T	5-30%	250, 500	25ppm/V
			>1T-10T	10-30%	on request	

Closer tolerance, TCR and VCR, other dimensions, and voltage dividers, on request.

CHARACTERISTICS

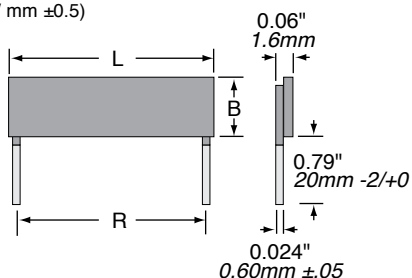
Continuous operating voltage	$V = \sqrt{P \cdot R}$
Measuring voltage	Standard measuring voltage is 10V (50V for values >1G). Different voltages on request.
TCR	in ppm/K; Temperature range +25°C ... +125°C; TCR25/50 and values above 1G: +25°C ... +85°C
Operating temp. range	-55°C ... +125°C
Climatic category	to EN 60068-1: 55/125/56
Humidity-/contact protection	Lacquer coating. Resistant to most solvents. Isopropyl alcohol recommended for cleaning; do not use acetone or methylene chloroxide. Avoid mechanical stress to coating.
Stability: Storage	(125°C/1000h) ≤10G: <1%; >10G: <2%
Stability at Max. voltage	(Max. voltage/1000h) ≤10G: <1%; >10G: <2%

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DIMENSIONS

(in. / mm ± 0.5)



Series	L	B	R
UM025	0.98"/25.0	0.35"/9.0	0.90"/22.9
UM030	1.18"/30.0	0.24"/6.0	1.09"/27.7
UM040	1.57"/40.0	0.24"/6.0	1.49"/37.8
UM050	1.97"/50.0	0.49"/12.5	1.88"/47.8

Lead spacing may be changed by bending

Other wire diameters and thicknesses available

Axial versions, versions with formed leads and versions with lead frames are available

ORDERING INFORMATION

RoHS Compliant

U	M	0	5	0	T	1	0	0	4	J	E
Ultra-mox	Style	TCR	Ohms	Tolerance							
High voltage		(ppm)	1004 = 1M Ω	D = 0.50%							
radial lead		W = 25	1006 = 100M	F = 1%							
		V = 50	1009 = 100G	G = 2%							
		T = 100	100A = 1T	J = 5%							
		Z = 250	100B = 10T	K = 10%							
		E = 500		M = 20%							
		N = 1000		P = 30%							
		U = 2000									

Standard Part Numbers

UM030T1006FE	UM040Z1009JE
UM030Z1007FE	UM040E100AJE
UM030Z1008JE	UM050V1006FE
UM030Z1009JE	UM050V1007FE
UM030E100AJE	UM050T1008JE
UM040T1006FE	UM050T1009JE
UM040Z1007FE	UM050Z100AJE
UM040Z1008JE	UM050E100BKE