

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

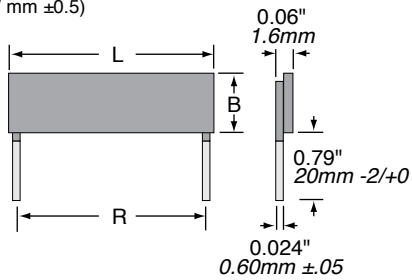
Continuous operating voltage	$V=\sqrt{P \cdot R}$
Measuring voltage	Standard measuring voltage is 10V (50V for values >1G). Different voltages on request.
TCR	in ppm/K; Temperature range +25°C ... +125°C; TCR25/50 and values above 1G: +25°C ... +85°C
Operating temp. range	-55°C ... +125°C
Climatic category	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 chlorolide. 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

Ultra-mox High voltage radial lead	Style	TCR (ppm)	Ohms	Tolerance
U	M	0	5	T
			1	0
			0	0
			4	J
				E

W = 25
 V = 50
 T = 100
 Z = 250
 E = 500
 N = 1000
 U = 2000

1004 = 1MΩ
 1006 = 100M
 1009 = 100G
 100A = 1T
 100B = 10T

D = 0.50%
 F = 1%
 G = 2%
 J = 5%
 K = 10%
 M = 20%
 P = 30%

Standard Part Numbers

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