Resistors

Commercial Grade Metal Oxide Resistors

CMO Series

- High purity ceramic core
- Non-inductive type available
- Superior flame retardant coating
- Power ratings from 1/4W to 9W
- Meets EIA-RC2655A requirements
- Stable performance in harsh environments

NOT RECOMMENDED FOR NEW DESIGNS

All parts are Pb-free and comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

Electrical Data

IRC Type	Power Rating at 70°C (W)	Resistance Range* (Ohms)	Tolerance (±%)	TCR (±ppm/°C)	Max. Working Voltage (V)	Max. Overload Voltage (V)	Dielectric Withstanding Voltage (V)				
Standard Size											
CMO-1/4	0.25	0.3 - 50K			250	400	250				
CMO-1/2	0.5	0.3 - 50K			250	400	250				
CMO-1	1	0.3 - 50K			350	600	350				
CMO-2	2	0.3 - 50K		350	350	600	350				
СМО-3	3	5 - 100K	2, 5, 10		500	800	500				
CMO-5	5	5 - 150K			750	1000	750				
CMO-7	7	20 - 150K			750	1000	750				
CMO-8	8	30 - 200K			750	1000	750				
СМО-9	9	50 - 200K			750	1000	750				
Miniature Size	•										
CMO-1/2S	0.5	0.3 - 50K		350	250	400	250				
CMO-1S	1	0.3 - 50K	2, 5, 10		350	600	350				
CMO-2S	2	0.3 - 50K			350	600	350				
CMO-3S	3	0.3 - 50K			350	600	350				
CMO-5SS	5	5 - 100K			500	800	500				
CMO-5S	5	5 - 150K			500	800	500				

Electronics

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General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

BI Technologies IRC Welwyn

Commerical Grade

Metal Oxide Resistor

CMO Series NOT RECOMMENDED FOR NEW DESIGNS

Environmental Data

Short-time overload	$\Delta R/R \le (\pm 0.5\% + 0.05\Omega)$, with no evidence of mechanical damage.				
Dielectric withstanding voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdowr				
Terminal strength	No evidence of mechanical damage.				
Resistance to Soldering heat	$\Delta R/R \le (\pm 1\% + 0.05\Omega)$, with no evidence of mechanical damage.				
Pulse Overload	$\Delta R/R \le (\pm 1\% + 0.05\Omega)$, with no evidence of mechanical damage.				
Solderability	Minimum 95% coverage.				
Resistance to solvent	No deterioration of protective coating and markings.				
Temperature cycling	$\Delta R/R \le (\pm 1\% + 0.05\Omega)$, with no evidence of mechanical damage.				
Load life in humidity	Standard type: $\Delta R/R \pm 3\%$ for <100K Ω , ±5% for ≥100K Ω ;				
Load life	Standard type: Δ R/R ±1.5% Flame retardant type: R/R ±5%				

www.ttelectronics.com/resistors

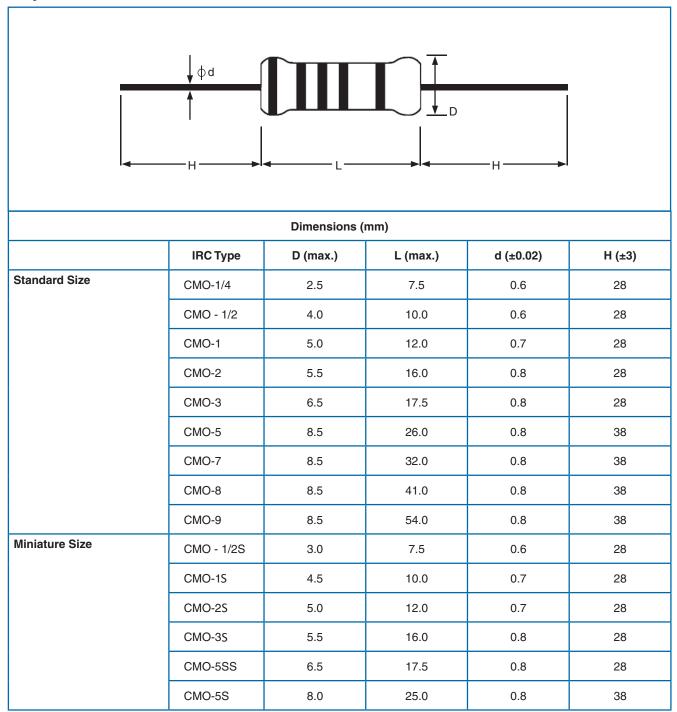


Commerical Grade Metal Oxide Resistor



CMO Series NOT RECOMMENDED FOR NEW DESIGNS

Physical Data



· Standard gray base color for standard size product; Blue color for miniature size product

Standard non-flammable coating

General Note

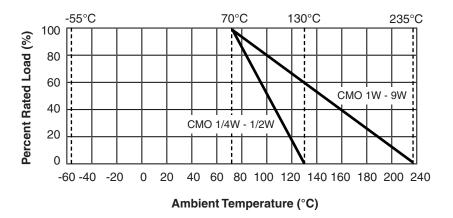
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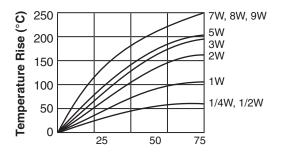
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Commerical Grade Metal Oxide Resistor смо Series NOT RECOMMENDED FOR NEW DESIGNS

Power Derating Curve



Temperature Rise Chart



Ordering Data

Specify type, resistance, tolerance, RoHS-Compliance and packaging. This example is for a Metal Oxide Resistor, 2-watt, 1000 $\!\Omega$ resistor.

Sample Part No CI	мо	2	1001	J	LF	TR
IRC Туре•••••	•	•		•	•	
Power Rating · · · · · · · · · · · · · · · · · · ·	••••	•••				
Resistance Value (EIA 4-digit code) ••••••••••••••••••••••••••••••••••••	••••	• • •	:	•	•	
Tolerance (EIA format) • • • • • • • • • • • • • • • • • • •	••••	• • • •	• • • • •	••	•	
RoHS- compliance • • • • • • • • • • • • • • • • • • •	••••	• • • •	••••	•••	••••	
Packaging · · · · · · · · · · · · · · · · · · ·	••••	•••	••••	•••	• • • • •	:

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