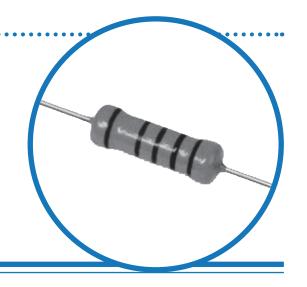
Commercial Grade Metal Oxide Resistor



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**



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		350	250	400	250	
CMO-1/2	0.5	0.3 - 50K	2, 5, 10		250	400	250	
СМО-1	1	0.3 - 50K			350	600	350	
СМО-2	2	0.3 - 50K			350	600	350	
СМО-3	3	5 - 100K			500	800	500	
СМО-5	5	5 - 150K			750	1000	750	
СМО-7	7	20 - 150K			750	1000	750	
СМО-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	













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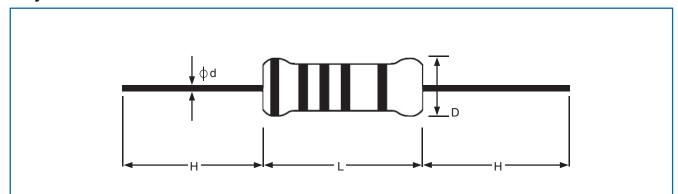
Environmental Data

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 breakdown.
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 , $\pm 5\%$ for $\geq 100K\Omega$;
Load life	Standard type: Δ R/R ±1.5% Flame retardant type: R/R ±5%



CMO Series NOT RECOMMENDED FOR NEW DESIGNS

Physical Data



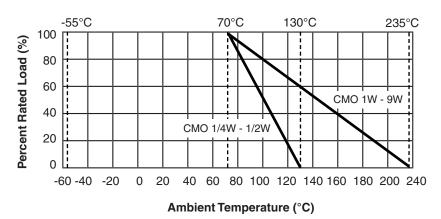
Dimensions (mm)						
	IRC Type	D (max.)	L (max.)	d (±0.02)	H (±3)	
Standard Size	CMO-1/4	2.5	7.5	0.6	28	
	CMO - 1/2	4.0	10.0	0.6	28	
	CMO-1	5.0	12.0	0.7	28	
	CMO-2	5.5	16.0	0.8	28	
	CMO-3	6.5	17.5	0.8	28	
	CMO-5	8.5	26.0	0.8	38	
	CMO-7	8.5	32.0	0.8	38	
	CMO-8	8.5	41.0	0.8	38	
	CMO-9	8.5	54.0	0.8	38	
Miniature Size	CMO - 1/2S	3.0	7.5	0.6	28	
	CMO-1	4.5	10.0	0.7	28	
	CMO-2	5.0	12.0	0.7	28	
	CMO-3	5.5	16.0	0.8	28	
	CMO-5SS	6.5	17.5	0.8	28	
	CMO-5S	8.0	25.0	0.8	38	

- Standard gray base color for standard size product; Blue color for miniature size product
- · Standard non-flammable coating

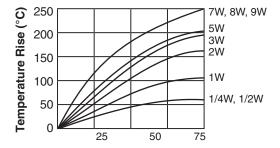


CMO Series NOT RECOMMENDED FOR NEW DESIGNS

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 Ω resistor.

Sample Part No. · · · · · · · · · · · · · · · · · · ·	СМО	2	1001	J	LF	TR
IRC Type· · · · · · · · · · · · · · · · · · ·						
Power Rating · · · · · · · · · · · · · · · · · · ·	•••••	.:				
Resistance Value (EIA 4-digit code) · · · · · · · · · · · · · · · · · · ·	•••••	• • • •	:		•	
Tolerance (EIA format) G = ±2%; J = ±5%; K = ±10%	• • • • •	• • • •	• • • • •	.:		
RoHS- compliance	•••••	• • • •	• • • • •	•••		
Packaging · · · · · · · · · · · · · · · · · · ·	• • • • • •	• • • •	• • • • •	• • •	• • • •	.:

General Note

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