

# Correctohm-CM Series

# RESISTOR

Metal Film Resistor

Coating insulation



Model number

<b>CM</b>	<b>1/2</b>	<b>1002</b>	<b>F</b>
Product type	Rated power	Temperature coefficient of resistance	Resistance value
		<b>Blank:</b> ±100ppm/degs.C <b>C:</b> ±50ppm/degs.C	Resistance tolerance
			<b>F:</b> ±1% <b>D:</b> ±0.5%

Temperature coefficient of resistance

Symbol	C	K
T.C.R [ppm/degs.C]	±50	±100

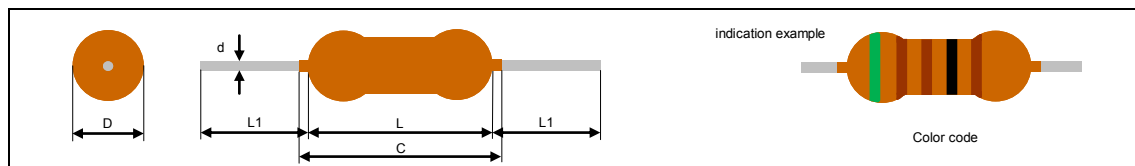
Resistance tolerance

Symbol	D	F
Tolerance [%]	±0.5	±1

Production resistance value range

Product type	Resistance tolerance	Production resistance value range [ohm] E24/E96	
		Temperature coefficient of resistance	
		C	K
CM1/8	D, F	10~100K	10~100K
	F	-	1~<10
CM1/4	D, F	10~1M	10~1M
	F	-	1~<10
CM1/2	D, F	10~1M	10~1M
	F	-	1~<10
CM1	D, F	10~1M	10~1M
CM2	D, F	10~1.5M	10~1.5M

Dimensions



Dimensions [mm]

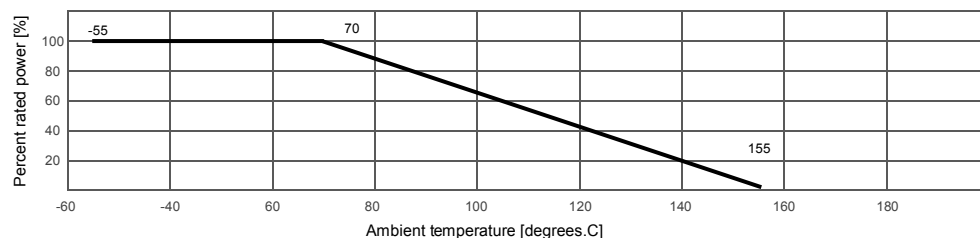
Product type	D	L	d	L1	C
CM1/8	1.6±0.2	3.7±0.3	0.4±0.05	27±2	4.5 or less
CM1/4	2.3±0.2	6.3±0.5	0.6±0.05	27±2	7.5 or less
CM1/2	3.6±0.5	9.0±0.5	0.6±0.05	27±2	10.5 or less
CM1	4.8±0.4	14.2±0.8	1.0±0.05	27±2	16.0 or less
CM2	8.0±0.5	17.5±1.0	1.0±0.05	27±2	19.5 or less

Materials

Insulation coating	epoxy resin
Resistive film	Ni-Cr type
Lead wire	annealed copper wire
Core	ceramic

Rating

Product type	Rated power [W] 70 degs.C	Highest usable voltage [V]	Extreme highest overload voltage [V]	Applicable temperature range [degs C]
CM1/8	0.125	150	300	-55~155 [degs.C]
CM1/4	0.25	250	500	
CM1/2	0.5	350	700	
CM1	1.0	500	1000	
CM2	2.0	500	1000	



General specifications

	CM
Storage temp. range	-10 to +50 degrees C
Relative humidity	85%RH (No condensation)

Performance

	Performance test contents	Performance of Correctohm-CM	JIS C 5202
Electric	Resistance value	Rate value	5.1
	T.C.R	Rate value	5.2
	Overload (short time)	±(0.5%+0.05ohm)	5.5
	Insulation resistance	10,000Mohm Min.	5.6
	Voltage proof	±(0.1%+0.05ohm)	5.7
Mechanic	Terminal strength	±(0.25%+0.05ohm)	6.1
	Vibration resistance	±(0.25%+0.05ohm)	6.3
	Solder dip resistance	±(0.25%+0.05ohm)	6.4
	Solderability	95% Min.	6.5
Weatherability	Solvent resistance	Appearance not having a problem.	6.9
	Low temperature test	±(0.25%+0.05ohm)	-
	Temperature cycling test	±(0.5%+0.05ohm)	7.4
	Humidity resistance	±(1.0%+0.05ohm)	7.9
	Rated load	±(1.0%+0.05ohm)	7.10

Note

\* Use to the apparatus which may cause an in-vehicle apparatus (including the train), medical equipment, an aviation apparatus, an apparatus about human life including the ship apparatus and the serious damage;