### **Commercial Grade Metal Film Resistor**

#### **CMF Series**

#### **Features**

ata Electrical Data

- Metal film resistor
- Conformal coating •
- Power ratings from 1/8W to 3W •
- Resistance range from  $10\Omega$  to  $1M\Omega$ •

# **OBSOLETE - EOL in Oct 2023**

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

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ower ting at			Power Rating at IState	Resistance Range TOIPT	Tolera	5)	tcr (±ppm/°C) TCR	۱ Vo		Max. Overload IaXitage (V) rking	Dielectric Withstanding Voltage	d	
°C (W)	Star CMI	dard Size	hms) 0.125	(±%	<b>%)</b>	(:	±ppm/°C)			<b>ige (V)</b>	Voltage	(V	
	СМР	-1/4	0.25						250	500	500		
	СМГ	-1/2	0.5						350	700	700	<b> </b>	
).125	CMF-1		1	10 - 1M	1		100		500 2	<b>00</b> 1000	10 <b>0400</b>		
	СМІ	-2	2						500	1000	1000		
0.25	СМІ	-3	3						500 2	50 <sub>1000</sub>	100500		
0.5		. 10	· 1\ <b>/</b>	. 4			100		3	350	700		
1	En	/ironh	henhal Da	ita '	1		100		500		1000	_	
	Sho	rt-time ove	erload		∆R/R ≤	±0.5%	⊦ 0.05Ω), with no e		vidence of mechanical dam		age.		
2	Diel	ectric with	standing volta	je	No evide	nce of flashover, mechanic			al damag <b>o fini</b> ng or insulat		tion break		
0	Terrninal strength		ngth			nce of mechanical damage					4000		
3	Res	stance to	Soldering heat		$\Delta R/R \leq (\pm 1\% + 0.05\Omega)$ , with no evidence of mechanical damage.					<sub>e.</sub> 1000			
	Pulse Overload				$\Delta R/R \le (\pm 1\% + 0.05\Omega)$ , with no evidence of mechanical damage.								
	Solderability				Minimum 95% coverage.								
ital [	Resistance to solvent				No deterioration of protective coating and markings.								
					$\Delta R/R \le (\pm 1\% + 0.05\Omega)$ , with no evidence of mechanical damage.								
	Lua	<del>d life in h</del> a	midity	Standard type: △R/R ±3% for <100KΩ, ±5% for ≥100KΩ,									
ł	Load life			$\Delta R/R \leq (\pm Q_a 5 a_{R1} + p_Q Q 5 Q)_{5} With n Q_a R i dence Q smechanical dence Q $									
lina vo	ltar					flag	hover me			domogo	oroing or in		

#### General Note

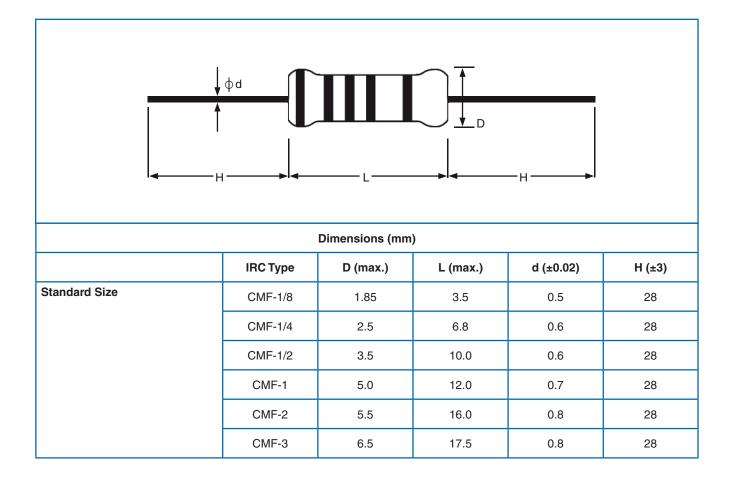
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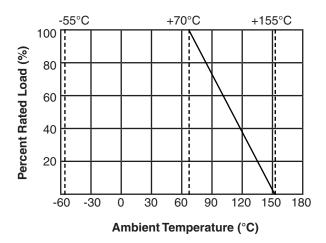
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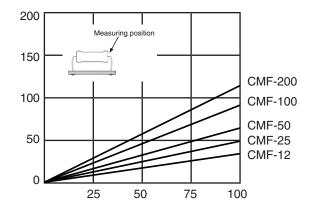


### **CMF Series** OBSOLETE - EOL in Oct 2023

#### **Derating Curve**



## Hot Spot Temperature Curve



## Ordering Data

Specify type, resistance, tolerance, RoHS-Compliance and packaging. This example is for a Metal Film Resistor, 1-watt,  $1000\Omega$  resistor.

Sample Part No	
IRC Type · CMF - Metal Film Resistor	
Power Rating . (See specs table)	
$ \begin{array}{l} \textbf{Resistance Value (EIA 4-digit code)} \\ (\geq 100\Omega - First 3 significant digits plus 4th digit multiplier) \\ Example: 100 ohms = 1000, 1000 ohms = 1001 \\ (>100\Omega - "R" is used to designate decimal) \\ Example: 10\Omega = 10R0, 1\Omega = 1R00, 51\Omega = 51R0 \\ \hline \textbf{Tolerance} \\ F = \pm 1\%; G = \pm 2\%; J = \pm 5\% \end{array} $	
RoHS- compliance · · · · · · · · · · · · · · · · · · ·	
Packaging • • • • • • • • • • • • • • • • • • •	

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