CMF Thin Film Precision Chip Resistor

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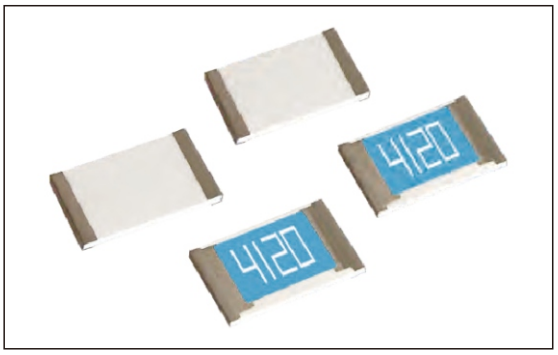
CMF Thin Film Precision Chip Resistor



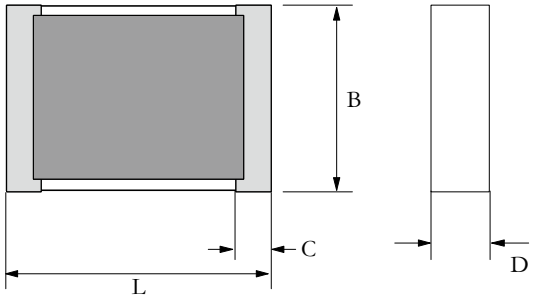
Features

Ⅰ Thin film technology
Ⅱ Contact areas tinned-resistant to leaching
Ⅲ Resistance element resin-passivated
Ⅳ Close tolerances(0.05%)-low TCR(5ppm/K)
Ⅴ Extreme low noise

Applications

Ⅰ Computers
Ⅱ Telecom and wireless
Ⅲ Meters and instruments
Ⅳ Electrical devices

Dimensions



Type	Power (mW)	Dimensions(mm)			
		L	B	D	C
CMF0603	65	1.6±0.1	0.8±0.1	0.45±0.1	0.3±0.2
CMF0805	125	2.0±0.1	1.25±0.1	0.55±0.1	0.4±0.2
CMF1206	250	3.2±0.2	1.6±0.15	0.55±0.1	0.5±0.2
CMF2512	750	6.3±0.2	3.0±0.2	0.55±0.2	0.5±0.2

L=lenght,B=width,D=Thickness
C=width of wraparound(in mm)

Ordering Information

Example:

CMF	0603	65	B	100R0	C6
(1)	(2)	(3)	(4)	(5)	(6)
Series Name	Style	Power Rating	Resistance Tolerance	Resistance	T.C.R

(1)Type: CMF SERIES

(2)Style:0603,0805,1206,2512

(3)Power Rating: 65=65mW,125=125mW,250=250mW,750=750mW

(4)Tolerance: W=±0.05%,B=±0.1%,C=±0.25%

(5)Resistance Value:100R0=100Ω

(6)T.C.R:C6=±10ppm/℃,C3=±25ppm/℃,C2=±50ppm/℃

If no requirements for TCR and taping,the standard TCR(highest value in table)will be supplied and packaging is bulk.

Reference Standards

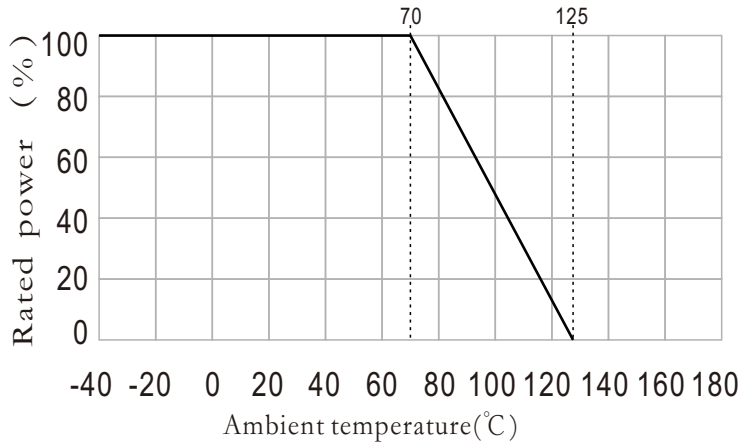
JISC 5201-1

Applications And Ratings

Type	Power (mW)	Working Voltage(V)	Resistance Range/Toleranses/TCR(ppm/℃)[2]							
			5R1~10R	10R~47R	47R~100R	100R~332K	332K~1M	1M~2M	2M~5M	5M~15M
CMF0603	65	75	—	0.1%/…/1% TC25/50	0.1%/…/1% TC10/…/50	0.1%/…/1% TC5/…/50	—	—	—	—
CMF0805	125	100	—	0.1%/…/1% TC25/50	0.1%/…/1% TC10/…/50	0.05%/…/1% TC5/…/50	0.1%/…/1% TC10/…/50	—	—	—
CMF1206	250	200	1% TC50	0.1%/…/1% TC25/50	0.1%/…/1% TC10/…/50	0.05%/…/1% TC5/…/50	0.05%/…/1% TC10/…/50	0.1%/…/1% TC10/…/50	—	—
CMF2512	750	300[1]	1% TC50	0.1%/…/1% TC25/50	0.1%/…/1% TC10/…/50	0.05%/…/1% TC5/…/50	0.05%/…/1% TC5/50	0.25%/…/1% TC5/…/50	0.1%/…/1% TC10/…/50	0.25%/…/1% TC10/…/50

1)1000V for special applications
2)TC5/10/15: Temperature range+25℃~+85℃

Derating Curve



Performance

Test Items	Test Methods(JIS C 5201-1)	
Temperature Range	-55℃~125℃	
Climatic Category	55/125/56	
Solderability	235℃, 2s	
Max. Soldering Temperature	260℃,10s	
Long Term Stability	⩾45R	<47R
Storage 125℃/1000h	<0.15%	<0.25%
Load P_{70}/70℃/1000h	<0.1%	<0.25%
Damp heat(56d/40℃/96%)	<0.15%	<0.5%