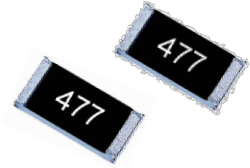


- Features:
- R Value extension of RMCF product
 - Highly stable performance over time
 - Power derating from 100% at 70°C to zero at 125°C
 - E12 and E24 values
 - Nickel barrier terminations
 - RoHS compliant



Electrical Specifications							
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage ⁽¹⁾	Maximum Overload Voltage	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance		
					1%	5%	10%
HMC0402	0.063W	50V	100V	±200 ppm/°C ±400 ppm/°C	11M - 20M	-	
					22M - 100M		
HMC0603	0.1W	50V	100V	±200 ppm/°C	11M - 20M	-	
				±400 ppm/°C	22M - 100M	30M - 100M	
				±500 ppm/°C	-	110M - 1G	110M - 4.7G
HMC0805	0.125W	150V	300V	±200 ppm/°C	11M - 20M	-	
				±400 ppm/°C	22M - 100M	30M - 100M	33M - 100M
				±500 ppm/°C	-	110M - 500M	
				±1000 ppm/°C	-	510M - 1G	
				±1500 ppm/°C	-	1.2G - 10G	
HMC1206	0.25W	200V	400V	±200 ppm/°C	11M - 20M	-	
				±400 ppm/°C	22M - 100M	30M - 100M	
				±500 ppm/°C	-	110M - 500M	
				±1000 ppm/°C	-	510M - 1G	
HMC1210	0.33W	200V	400V	±200 ppm/°C	11M - 20M	-	11M - 20M
				±400 ppm/°C	22M - 100M		
HMC2010	0.75W	200V	400V	±200 ppm/°C	11M - 20M		
				±400 ppm/°C	22M - 100M		
HMC2512	1W	250V	500V	±200 ppm/°C	11M - 20M		
				±400 ppm/°C	22M - 100M		

(1) Lesser of \sqrt{PR} or maximum working voltage.

Mechanical Specifications						
Type / Code	L Body Length	W Body Width	H Body Height	a Top Termination	b Bottom Termination	Unit
HMC0402	0.039 ± 0.002	0.020 ± 0.002	0.014 ± 0.002	0.008 ± 0.004	0.008 ± 0.004	inches mm
	1.00 ± 0.05	0.50 ± 0.05	0.35 ± 0.05	0.20 ± 0.10	0.20 ± 0.10	
HMC0603	0.063 ± 0.004	0.031 ± 0.004	0.018 ± 0.004	0.012 ± 0.008	0.012 ± 0.008	inches mm
	1.60 ± 0.10	0.80 ± 0.10	0.45 ± 0.10	0.30 ± 0.20	0.30 ± 0.20	
HMC0805	0.079 ± 0.008	0.049 ± 0.004	0.020 ± 0.004	0.016 ± 0.008	0.016 ± 0.008	inches mm
	2.00 ± 0.20	1.25 ± 0.10	0.50 ± 0.10	0.40 ± 0.20	0.40 ± 0.20	
HMC1206	0.122 ± 0.006	0.061 ± 0.004	0.022 ± 0.006	0.020 ± 0.010	0.020 ± 0.008	inches mm
	3.10 ± 0.15	1.55 ± 0.10	0.55 ± 0.15	0.50 ± 0.25	0.50 ± 0.20	
HMC1210	0.126 ± 0.008	0.102 ± 0.006	0.022 ± 0.004	0.020 ± 0.008	0.020 ± 0.008	inches mm
	3.20 ± 0.20	2.60 ± 0.15	0.55 ± 0.10	0.50 ± 0.20	0.50 ± 0.20	
HMC2010	0.197 ± 0.008	0.098 ± 0.006	0.022 ± 0.004	0.024 ± 0.010	0.020 ± 0.008	inches mm
	5.00 ± 0.20	2.50 ± 0.15	0.55 ± 0.10	0.60 ± 0.25	0.50 ± 0.20	
HMC2512	0.250 ± 0.008	0.126 ± 0.006	0.022 ± 0.004	0.024 ± 0.010	0.020 ± 0.008	inches mm
	6.35 ± 0.20	3.20 ± 0.15	0.55 ± 0.10	0.60 ± 0.25	0.50 ± 0.20	

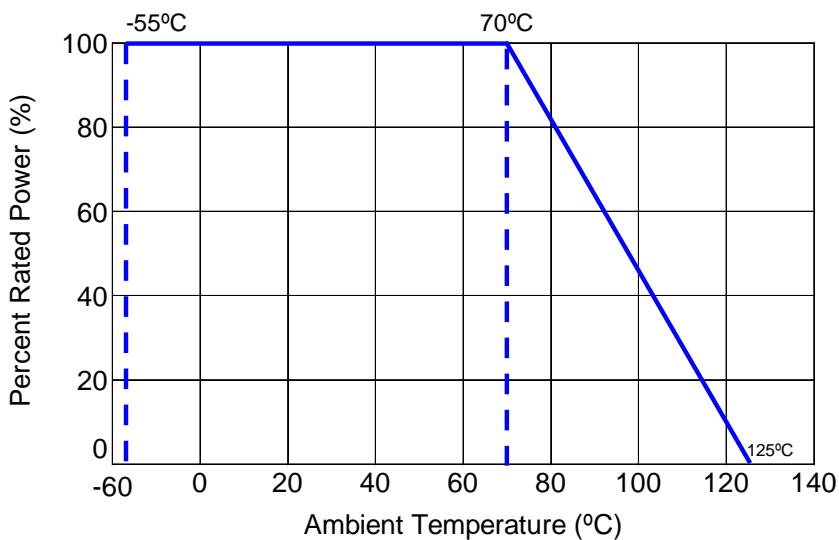
HMC Series

High Value Thick Film Chip Resistor

Performance Characteristics		
Test	Test Conditions (JIS C 5202)	Test Results
Long Term Stability	Nominal temperature & humidity for 1,000 hrs.	± 0.5%
High Temperature Loading	15VDC, 1.5 hr. ON, 0.5 hr. OFF, 1,000 hrs. 70°C	± 3%
Resistance to Solder Heat	260°C ± 5°C, 10 seconds +1/-0	± 1%
Short Time Overload	5 seconds at maximum overload voltage	± 2%
Voltage Coefficient of Resistance	Per JIS C 5202	± 0.5%/V

Operating Temperature Range: -55°C to +125°C

Power Derating Curve:



How to Order

1	2	3	4	5	6	7	8	9	10	11	12	13
H	M	C	0	8	0	5	F	T	4	7	M	0

Product Series		Size	Power	Tolerance			Packaging				Resistance Value	
HMC	High Value Thick Film	0402	0.063W	Code	Tol	Value	Code	Description	Size	Quantity	Four characters with the multiplier used as the decimal holder. 30 Mohm = 30M0 100 Mohm = 100M 1.2 Gohm = 1G20	
		0603	0.1W	F	1%							E24
		0805	0.125W	J	5%		0603, 0805 1206, 1210	5,000				
		1206	0.25W	K	10%	7" Reel Plastic Tape	2010	4,000				
		1210	0.33W									
		2010	0.75W									
		2512	1W									

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