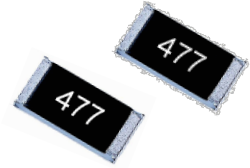


- Features:
- R Value extension of RMCF product
  - Highly stable performance over time
  - Power derating from 100% at 70°C to zero at 125°C
  - E12 and E24 values
  - Nickel barrier terminations
  - RoHS compliant



Electrical Specifications							
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage <sup>(1)</sup>	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	

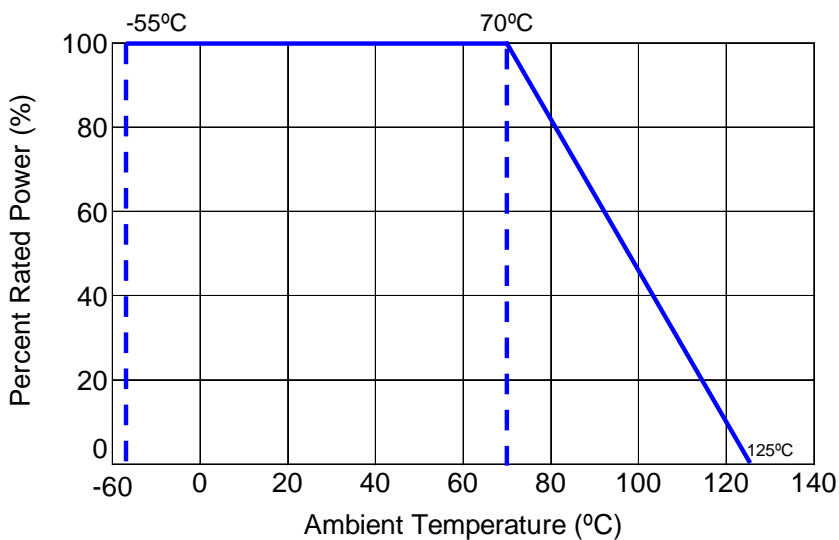
# HMC Series

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