

**Features:**

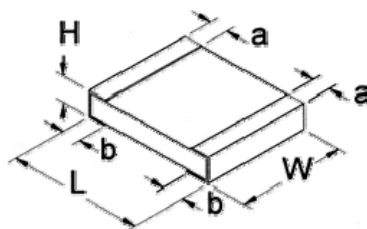
- R Value extension of RMC product
- Highly stable performance over time
- Power derating from 100% at 70°C to zero at 125°C
- E12 and E24 values
- Nickel barrier terminations
- RoHS compliant / lead-free



**Electrical Specifications**

Type / Code	Old Pkg 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	1/16S	0.063W	50V	100V	±200 ppm/°C ±400 ppm/°C	10.2M - 20M 20.5M - 100M	- 30M - 100M	- 30M - 100M
HMC0603	1/16	0.1W	50V	100V	±200 ppm/°C ±400 ppm/°C ±500 ppm/°C	10.2M - 20M 20.5M - 100M -	- 30M - 100M 110M - 1G	- 30M - 100M 110M - 1G
HMC0805	1/10	0.125W	150V	300V	±200 ppm/°C ±400 ppm/°C ±500 ppm/°C ±1000 ppm/°C ±1500 ppm/°C	10.2M - 20M 20.5M - 100M - - -	- 30M - 100M 110M - 500M 510M - 1G 1.2G - 10G	- 30M - 100M 110M - 500M 510M - 1G 1.2G - 10G
HMC1206	1/8	0.25W	200V	400V	±200 ppm/°C ±400 ppm/°C ±500 ppm/°C ±1000 ppm/°C ±1500 ppm/°C	10.2M - 20M 20.5M - 100M - - -	- 30M - 100M 110M - 500M 510M - 1G 1.2G - 10G	- 30M - 100M 110M - 500M 510M - 1G 1.2G - 10G
HMC1210	1/4	0.33W	200V	400V	±200 ppm/°C ±400 ppm/°C	10.2M - 20M 20.5M - 100M	- 22M - 100M	- 22M - 100M
HMC2010	1/2	0.75W	200V	400V	±200 ppm/°C ±400 ppm/°C	10.2M - 20M 20.5M - 100M	11M - 20M 22M - 100M	11M - 20M 22M - 100M
HMC2512	1	1W	250V	500V	±200 ppm/°C ±400 ppm/°C	10.2M - 20M 20.5M - 100M	11M - 20M 22M - 100M	11M - 20M 22M - 100M

(1) Lesser of √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 1 ± 0.05	0.02 ± 0.002 0.5 ± 0.05	0.014 ± 0.002 0.35 ± 0.05	0.008 ± 0.004 0.2 ± 0.1	0.008 ± 0.004 0.2 ± 0.1	inches mm
HMC0603	0.063 ± 0.004 1.6 ± 0.1	0.032 ± 0.004 0.8 ± 0.1	0.018 ± 0.004 0.45 ± 0.1	0.012 ± 0.008 0.3 ± 0.2	0.012 ± 0.008 0.3 ± 0.2	inches mm
HMC0805	0.079 ± 0.008 2 ± 0.2	0.049 ± 0.004 1.25 ± 0.1	0.02 ± 0.004 0.5 ± 0.1	0.016 ± 0.008 0.4 ± 0.2	0.016 ± 0.008 0.4 ± 0.2	inches mm
HMC1206	0.122 ± 0.006 3.1 ± 0.15	0.061 ± 0.004 1.55 ± 0.1	0.022 ± 0.006 0.55 ± 0.15	0.02 ± 0.010 0.5 ± 0.25	0.02 ± 0.008 0.5 ± 0.2	inches mm
HMC1210	0.126 ± 0.008 3.2 ± 0.2	0.102 ± 0.006 2.6 ± 0.15	0.022 ± 0.004 0.55 ± 0.1	0.02 ± 0.008 0.5 ± 0.2	0.02 ± 0.008 0.5 ± 0.2	inches mm
HMC2010	0.197 ± 0.008 5 ± 0.2	0.098 ± 0.006 2.5 ± 0.15	0.022 ± 0.004 0.55 ± 0.1	0.024 ± 0.01 0.6 ± 0.25	0.02 ± 0.008 0.5 ± 0.2	inches mm
HMC2512	0.25 ± 0.008 6.35 ± 0.2	0.126 ± 0.006 3.2 ± 0.15	0.022 ± 0.004 0.55 ± 0.1	0.024 ± 0.01 0.6 ± 0.25	0.02 ± 0.008 0.5 ± 0.2	inches mm

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

### 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.	
		0603	0.1W	F	1%	E24	T	7" Reel Paper Tape	0402	10,000		
		0805	0.125W	J	5%				0603	5,000		
		1206	0.25W	K	10%				0805, 1206			
		1210	0.33W						1210, 2010	4,000		
		2010	0.75W									
		2512	1W								30 Mohm = 30M0 100 Mohm = 100M 1.2 Gohm = 1G20	

Legacy Part Number (before January 3, 2011):

SEI Type		Code			Nominal Resistance	Tolerance		Packaging			
HMC		1/10			47M	1%		R			
Type	Description	Code	Wattage	Size		Tolerance	Values	SEI Types	Pkg Qty	Description	Code
HMC	High Value Thick Film	1/16S	0.063W	0402		1%	E24	0402	10,000	7" reel paper tape	R
		1/16	0.1W	0603		5%		0603	5,000		R
		1/10	0.125W	0805		10%		0805, 1206			R
		1/8	0.25W	1206				1210, 2010			R
		1/4	0.33W	1210				4,000			
		1/2	0.75W	2010							
		1	1W	2512							