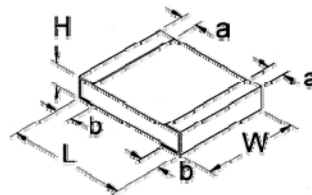


- Features:
- R Value extension of RMC product
 - Highly stable performance over time
 - Power derating from 100% at 70°C to zero at 125°C
 - E12 and E24 values
 - Nickel barrier terminations
 - RoHS compliant / lead-free



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	- 11M - 100M	- 11M - 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	0805, 1206 1210, 2010	5,000
		1206	0.25W	K	10%				2512		
		1210	0.33W								
		2010	0.75W								
		2512	1W								

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	E24	1%	E24	0402	10,000	7" reel paper tape	R		
		1/16	0.1W	0603							0603	5,000	
		1/10	0.125W	0805							0805, 1206		
		1/8	0.25W	1206							1210, 2010		R
		1/4	0.33W	1210						2512	4,000		R
		1/2	0.75W	2010									
		1	1W	2512									