

- 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

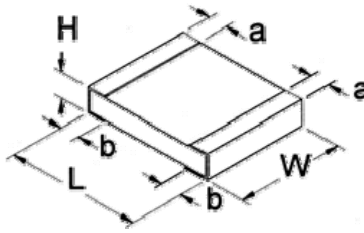


Electrical Specifications						
Type / Code	Package Type	Power Rating (Watts) @ 70°C	Maximum Working Voltage (1)	Maximum Overload Voltage	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance
						1%, 5%
HMC 1/20	0201	0.050W	25V	50V	±100 ppm/°C ±400 ppm/°C	1 - 10M
HMC 1/16S	0402	0.063W	50V	100V	±100 ppm/°C ±400 ppm/°C	1 - 100M
HMC 1/16	0603	0.100W	50V	100V	±100 ppm/°C ±400 ppm/°C	1 - 100M
HMC 1/10	0805	0.125W	150V	300V	±100 ppm/°C ±400 ppm/°C	1 - 100M
HMC 1/8	1206	0.250W	200V	400V	±100 ppm/°C ±400 ppm/°C	1 - 100M
HMC 1/4	1210	0.330W	200V	400V	±100 ppm/°C ±400 ppm/°C	1 - 39M
HMC 1/2	2010	0.750W	200V	400V	±100 ppm/°C ±400 ppm/°C	1 - 39M
HMC 1	2512	1.000W	250V	500V	±100 ppm/°C ±400 ppm/°C	1 - 39M

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

How to Order

SEI Type		Code			Nominal Resistance	Tolerance	Packaging			
HMC		1/10			47M	1%	R			
Type	Description	Code	Wattage	Size	Tolerance		SEI Types	Pkg Qty	Description	Code
HMC	High Value Thick Film	1/20	0.050W	0201	E12, E24		1/16S	10,000	7" - Paper	R
		1/16S	0.063W	0402			1/20, 1/16,	5,000	7" - Paper	R
		1/16	0.100W	0603	1/10, 1/8					
		1/10	0.125W	0805	1/4, 1/2	1	4,000		7" - Paper	R
		1/8	0.250W	1206						
		1/4	0.330W	1210						
		1/2	0.750W	2010						
		1	1.000W	2512						



Mechanical Specifications						
Type / Code	L Body Length	W Body Width	H Body Height	a Top Termination	b Bottom Termination	Units
HMC 1/20	0.024 ± 0.001	0.012 ± 0.001	0.009 ± 0.001	0.006 ± 0.002	0.006 ± 0.002	inches
	0.6 ± 0.03	0.3 ± 0.03	0.23 ± 0.03	0.15 ± 0.05	0.15 ± 0.05	mm
HMC 1/16S	0.039 ± 0.002	0.02 ± 0.002	0.014 ± 0.002	0.008 ± 0.004	0.008 ± 0.004	inches
	1 ± 0.05	0.5 ± 0.05	0.35 ± 0.05	0.2 ± 0.1	0.2 ± 0.1	mm
HMC 1/16	0.063 ± 0.004	0.032 ± 0.004	0.018 ± 0.004	0.012 ± 0.008	0.012 ± 0.008	inches
	1.6 ± 0.1	0.8 ± 0.1	0.45 ± 0.1	0.3 ± 0.2	0.3 ± 0.2	mm
HMC 1/10	0.079 ± 0.004	0.049 ± 0.004	0.02 ± 0.004	0.014 ± 0.008	0.016 ± 0.008	inches
	2 ± 0.1	1.25 ± 0.1	0.5 ± 0.1	0.35 ± 0.2	0.4 ± 0.2	mm
HMC 1/8	0.122 ± 0.004	0.061 ± 0.004	0.022 ± 0.004	0.02 ± 0.008	0.02 ± 0.008	inches
	3.1 ± 0.1	1.55 ± 0.1	0.55 ± 0.1	0.5 ± 0.2	0.5 ± 0.2	mm
HMC 1/4	0.126 ± 0.008	0.102 ± 0.006	0.022 ± 0.004	0.02 ± 0.008	0.02 ± 0.008	inches
	3.2 ± 0.2	2.6 ± 0.15	0.55 ± 0.1	0.5 ± 0.2	0.5 ± 0.2	mm
HMC 1/20	0.197 ± 0.008	0.098 ± 0.006	0.022 ± 0.004	0.024 ± 0.01	0.02 ± 0.008	inches
	5 ± 0.2	2.5 ± 0.15	0.55 ± 0.1	0.6 ± 0.25	0.5 ± 0.2	mm
HMC 1	0.25 ± 0.008	0.126 ± 0.006	0.022 ± 0.004	0.024 ± 0.01	0.02 ± 0.008	inches
	6.35 ± 0.2	3.2 ± 0.15	0.55 ± 0.1	0.6 ± 0.25	0.5 ± 0.2	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