Stackpole Electronics, Inc.

Resistive Product Solutions

HMC Series High Value Thick Film Chip Resistor

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 and halogen-free



Electrical Specifications								
Power RatingMaximuType/Code(Watts) @Workin			Maximum Overload	Resistance Temperature		mic Range (Ω) and Tolera	nce	
	70ºC	Voltage (1)	Voltage	Coefficient	1%	5%	10%	
HMC0402	0.063W	50V	100V	±200 ppm/ºC	11M - 20M			
1100402	0.00011	867		±400 ppm/ºC	22M - 100M			
			100V	±200 ppm/ºC	11M - 20M -			
HMC0603	0.1W	50V		±400 ppm/ºC	22M - 100M			
				±500 ppm/ºC	-	110M - 1G		
		150V	300V	±200 ppm/°C	11M - 20M	-		
				±400 ppm/°C	22M - 100M			
HMC0805	0.125W			±500 ppm/°C	-	110M - 500M		
				±1000 ppm/°C	-	510M - 1G		
				±1500 ppm/ºC	-	1.2G	- 10G	
	0.25W			±200 ppm/°C	11M - 20M		-	
				±400 ppm/ºC	22M - 100M	30M -	100M	
HMC1206		200V	400V	±500 ppm/ºC	-	110M	- 500M	
				±1000 ppm/ºC	-	510N	1 - 1G	
				±1500 ppm/ºC	-	1.2G	- 10G	
11100000	0.0014	000)(4001/	±200 ppm/ºC	11M - 20M	-	11M - 20M	
HMC1210	0.33W	200V	400V	±400 ppm/ºC	22M - 100M			
	0.7511/	514/ 0001/	4001/	±200 ppm/ºC	11M - 20M			
HMC2010	0.75W	200V	400V	±400 ppm/ºC	22M - 100M			
	4147	2501/	5001/	±200 ppm/ºC	11M - 20M			
HMC2512	1W	250V	500V	±400 ppm/°C	22M - 100M			

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

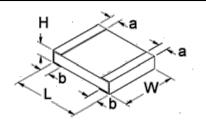
Performance Characteristics							
Test	Test Result						
Long Term Stability	Nominal temperature & humidity for 1,000 hrs.	± 0.5%					
High Temperature Loading	15VDC, 1.5 hr. ON, 0.5 hr. OFF, 1,000 hrs. 70°C	± 3%					
Resistance to Solder Heat	260°C ± 5°C, 10 seconds +1/-0	± 1%					
Short Time Overload	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

High Value Thick Film Chip Resistor

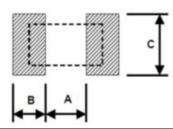
HMC Series

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
	1.00 ± 0.05	0.50 ± 0.05	0.35 ± 0.05	0.20 ± 0.10	0.20 ± 0.10	mm
HMC0603	0.063 ± 0.004	0.031 ± 0.004	0.018 ± 0.004	0.012 ± 0.008	0.012 ± 0.008	inches
	1.60 ± 0.10	0.80 ± 0.10	0.45 ± 0.10	0.30 ± 0.20	0.30 ± 0.20	mm
HMC0805	0.079 ± 0.008	0.049 ± 0.004	0.020 ± 0.004	0.016 ± 0.008	0.016 ± 0.008	inches
	2.00 \pm 0.20	1.25 ± 0.10	0.50 ± 0.10	0.40 ± 0.20	0.40 ± 0.20	mm
HMC1206	0.122 ± 0.006	0.061 ± 0.004	0.022 ± 0.006	0.020 ± 0.010	0.020 ± 0.008	inches
	3.10 ± 0.15	1.55 ± 0.10	0.55 ± 0.15	0.50 ± 0.25	0.50 ± 0.20	mm
HMC1210	0.126 ± 0.008	0.102 ± 0.006	0.022 ± 0.004	0.020 ± 0.008	0.020 ± 0.008	inches
	3.20 ± 0.20	2.60 ± 0.15	0.55 ± 0.10	0.50 ± 0.20	0.50 ± 0.20	mm
HMC2010	0.197 ± 0.008	0.098 ± 0.006	0.022 ± 0.004	0.024 ± 0.010	0.020 ± 0.008	inches
	5.00 ± 0.20	2.50 ± 0.15	0.55 ± 0.10	0.60 ± 0.25	0.50 ± 0.20	mm
HMC2512	0.250 ± 0.008	0.126 ± 0.006	0.022 ± 0.004	0.024 ± 0.010	0.020 ± 0.008	inches
	6.35 ± 0.20	3.20 ± 0.15	0.55 ± 0.10	0.60 ± 0.25	0.50 ± 0.20	mm

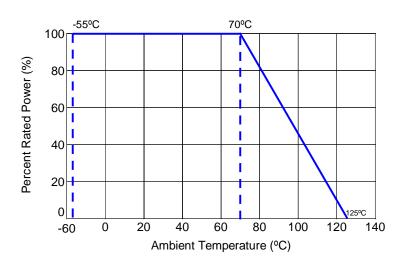
Recommended Pad Layouts



Type/Code	A	В	С	Unit
HMC0402	0.020	0.018	0.024	inches
11000402	0.50	0.45	0.60	mm
HMC0603	0.035	0.024	0.035	inches
11000003	0.90	0.60	0.90	mm
HMC0805	0.047	0.028	0.051	inches
11000805	1.20	0.70	1.30	mm
HMC1206	0.079	0.035	0.063	inches
110101208	2.00	0.90	1.60	mm
HMC1210	0.079	0.035	0.110	inches
HMC1210	2.00	0.90	2.80	mm
HMC2010	0.150	0.035	0.110	inches
11002010	3.80	0.90	2.80	mm
HMC2512	0.193	0.063	0.138	inches
	4.90	1.60	3.50	mm

Resistive Product Solutions

Power Derating Curve:



RoHS Compliance

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union's directive regarding "Restrictions on Hazardous Substances" (RoHS 3). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament as amended by Directive (EU) 2015/863/EU as regards the list of restricted substances.

	RoHS Compliance Status										
Standard Product Series	Description	Package / Termination Type	Standard Series RoHS Compliant	Lead-Free Termination Composition	Lead-Free Mfg. Effective Date (Std Product Series)	Lead-Free Effective Date Code (YY/WW)					
НМС	High Value Thick Film Surface Mount Chip Resistor	SMD	YES(1)	100% Matte Sn over Ni	Jan-04	04/01					

Note (1): RoHS Compliant by means of exemption 7c-I.

"Conflict Metals" Commitment

We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the "conflict region" of the eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

Compliance to "REACH"

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, "The Registration, Evaluation, Authorization and Restriction of Chemicals", otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

Resistive Product Solutions

Environmental Policy

It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.

	How to Order										
	1 2 H M		3 4 C		5 8	6 0	7 5	8 F	9 1 T	0 1 1 7	1 12 13 7 M 0
Produ	Product Series Size		Size	Tolerance				Pac	Resistance Value		
	Description	Code	Power	Code	Tol	Value	Code	Description	Size	Quantity	Four characters with the
HMC	High Value	0402	0.063W	F	1%	E24		7" Reel	0402	10,000	multiplier used as the decimal
	Thick Film	0603 0805	0.1W 0.125W	K	5% 10%	E24	т	Paper Tape	0603, 0805 1206, 1210	5,000	holder.
		1206	0.25W					7" Reel	2010	4,000	30 Mohm = 30M0
	1210		0.33W					Plastic Tape	2512	4,000	100 Mohm = 100M
		2010	0.75W								1.2 Gohm = 1G20
		2512	1W								

单击下面可查看定价,库存,交付和生命周期等信息

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