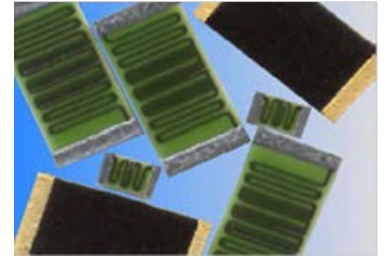
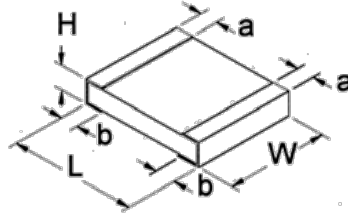


- Features:
- Ultra high stability
 - Very low noise
 - Tolerances to 0.1%
 - TCR to 25 ppm/°C
 - RoHS compliant



Electrical Specifications												
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage	Resistane Temperature Coefficient	Ohmic Range (Ω) and Tolerance								
				0.1%	0.25%	0.5%	1%	2%	5%	10%	20%	
0402	0.04W	50V	± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C				10K - 100M 10K - 500M 10K - 500M	10K - 100M 10K - 500M 10K - 1G	10K - 100M 10K - 500M 10K - 1G	10K - 100M 10K - 500M 10K - 1G	10K - 100M 10K - 500M 10K - 1G	10K - 100M 10K - 500M 10K - 1G
0603	0.06W	100V	± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C			10K - 10M 10K - 10M 10K - 10M	10K - 100M 10K - 500M 10K - 500M	10K - 500M 10K - 1G 10K - 1G	10K - 500M 10K - 1G 10K - 1G	10K - 500M 10K - 1G 10K - 1G	10K - 500M 10K - 1G 10K - 10G	10K - 500M 10K - 1G 10K - 50G
0805	0.2W	125V	± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C			10K - 10M 10K - 10M 10K - 10M	10K - 500M 10K - 1G 10K - 1G	10K - 500M 10K - 1G 10K - 1G	10K - 500M 10K - 1G 10K - 1G	10K - 500M 10K - 1G 10K - 10G	10K - 500M 10K - 1G 10K - 10G	10K - 500M 10K - 1G 10K - 50G
1206	0.33W	200V	± 25 ppm/°C ± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	1M - 10M 100K - 10M 10K - 10M 10K - 10M	1M - 100M 100K - 100M 10K - 100M 10K - 100M	1M - 100M 100K - 500M 10K - 500M 10K - 500M	1M - 100M 100K - 500M 10K - 1G 10K - 1G	1M - 100M 100K - 500M 10K - 1G 10K - 10G	1M - 100M 100K - 500M 10K - 1G 10K - 10G	1M - 100M 100K - 500M 10K - 1G 10K - 10G	1M - 100M 100K - 500M 10K - 1G 10K - 10G	1M - 100M 100K - 500M 10K - 1G 10K - 50G
2010	1W	300V	± 25 ppm/°C ± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	1M - 10M 100K - 10M 10K - 10M 10K - 10M	1M - 100M 100K - 100M 10K - 100M 10K - 100M	1M - 100M 100K - 500M 10K - 500M 10K - 500M	1M - 100M 100K - 500M 10K - 1G 10K - 1G	1M - 100M 100K - 500M 10K - 1G 10K - 10G	1M - 100M 100K - 500M 10K - 1G 10K - 10G	1M - 100M 100K - 500M 10K - 1G 10K - 10G	1M - 100M 100K - 500M 10K - 1G 10K - 10G	1M - 100M 100K - 500M 10K - 1G 10K - 50G
2512	2W	350V	± 25 ppm/°C ± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	1M - 100M 100K - 100M 10K - 100M 10K - 100M	1M - 500M 100K - 500M 10K - 500M 10K - 500M	1M - 500M 100K - 1G 10K - 1G 10K - 1G	1M - 500M 100K - 1G 10K - 10G 10K - 10G	1M - 500M 100K - 1G 10K - 10G 10K - 10G	1M - 500M 100K - 1G 10K - 10G 10K - 10G	1M - 500M 100K - 1G 10K - 10G 100K - 50G	1M - 500M 100K - 1G 10K - 10G 100K - 50G	1M - 500M 100K - 1G 10K - 10G 100K - 50G
3512	3W	600V	± 25 ppm/°C ± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	1M - 100M 100K - 100M 10K - 100M 10K - 100M	1M - 500M 100K - 500M 10K - 500M 10K - 500M	1M - 500M 100K - 1G 10K - 1G 10K - 1G	1M - 500M 100K - 1G 10K - 10G 10K - 10G	1M - 500M 100K - 1G 10K - 10G 10K - 10G	1M - 500M 100K - 1G 10K - 10G 10K - 10G	1M - 500M 100K - 1G 10K - 10G 100K - 50G	1M - 500M 100K - 1G 10K - 10G 100K - 50G	1M - 500M 100K - 1G 10K - 10G 100K - 50G

Mechanical Specifications



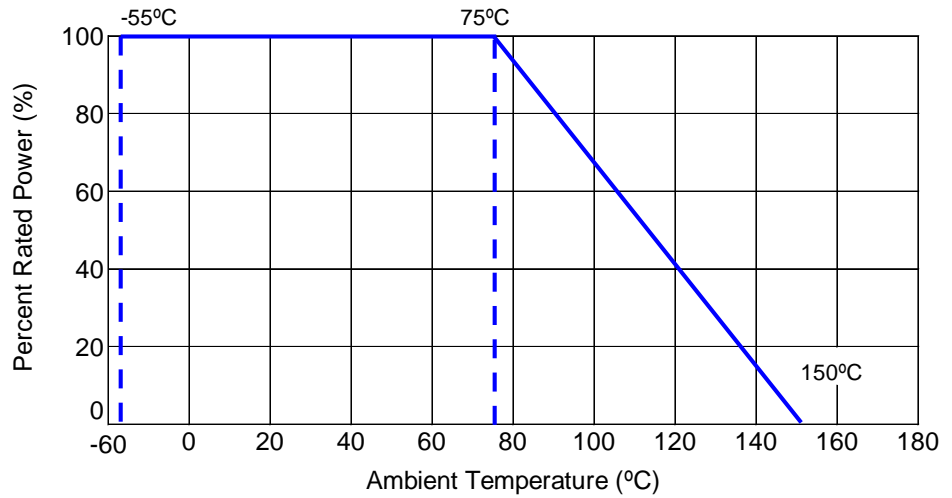
Type / Code	L Body Length	W Body Width	H Body Height (Max.)	a Top Termination	b Bottom Termination	Unit
0402	0.040 ± 0.005 1.02 ± 0.13	0.020 ± 0.003 0.51 ± 0.08	0.020 0.51	0.008 ± 0.004 0.20 ± 0.10	0.010 + 0.002 / -0.004 0.25 + 0.05 / -0.10	inches mm
0603	0.063 + 0.010 / -0.005 1.60 + 0.25 / -0.13	0.031 ± 0.005 0.79 ± 0.13	0.020 0.51	0.010 ± 0.005 0.25 ± 0.13	0.012 ± 0.008 0.30 ± 0.20	inches mm
0805	0.079 + 0.010 / -0.005 2.01 + 0.25 / -0.13	0.050 ± 0.005 1.27 ± 0.13	0.025 0.64	0.010 ± 0.005 0.25 ± 0.13	0.013 ± 0.008 0.33 ± 0.20	inches mm
1206	0.126 + 0.010 / -0.005 3.20 + 0.25 / -0.13	0.063 ± 0.005 1.60 ± 0.13	0.030 0.76	0.010 ± 0.005 0.25 ± 0.13	0.020 ± 0.010 0.51 ± 0.25	inches mm
2010	0.200 + 0.010 / -0.005 5.08 + 0.25 / -0.13	0.100 ± 0.005 2.54 ± 0.13	0.030 0.76	0.018 ± 0.010 0.46 ± 0.25	0.020 ± 0.010 0.51 ± 0.25	inches mm
2512	0.250 + 0.010 / -0.005 6.35 + 0.25 / -0.13	0.125 ± 0.005 3.18 ± 0.13	0.030 0.76	0.020 ± 0.010 0.51 ± 0.25	0.024 ± 0.010 0.61 ± 0.25	inches mm
3512	0.350 + 0.010 / -0.005 8.89 + 0.25 / -0.13	0.125 ± 0.005 3.18 ± 0.13	0.030 0.76	0.020 ± 0.010 0.51 ± 0.25	0.024 ± 0.010 0.61 ± 0.25	inches mm

Performance Characteristics

Test	Typical Delta R
Short Time Overload	0.1%
Load Life	0.1%
Temperature Cycle	0.1%
Moisture Resistance	0.1%
Shock	0.05%
Vibration	0.05%
Dielectric Withstanding Voltage	0.05%
Resistance to Soldering Heat	0.05%

Operating Temperature Range: -55°C to +150°C

Power Derating Curve:



How to Order

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
H	G	C	B	1	2	0	6	F	K	C	2	M	0	0

Product Series	Code	Description	Size	Power	Tolerance		Packaging				TCR		Resistance Value
HGC	B	Solderable wraparound (100% matte tin)	0402	0.04W	Code	Tol	Code	Description	Size	Quantity	Code	ppm	Four characters with the multiplier used as the decimal holder. 10 Kohm = 10K0 1 Mohm = 1M00 10 Gohm = 10G0
			0603	0.06W	B	0.1%	T	7" Reel - Paper Tape	0402, 0603, 0805	5,000	E	25	
			0805	0.2W	C	0.25%					C	50	
			1206	0.33W	D	0.5%					D	100	
			2010	1W	F	1%	K	7" Reel - Paper Tape	0603, 0805, 1206	1,000	L	200	
			2512	2W	G	2%							
			3512	3W	J	5%	D	7" Reel - Paper Tape	0603, 0805, 1206	500			
					K	10%							
					M	20%	B	Bulk	All Sizes	1,000			