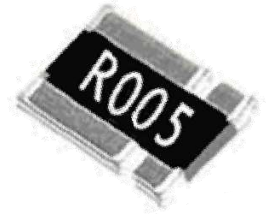


Features:

- Power rating to 1W
- Operation temperature range is -55°C ~ +170°C
- Tolerance available in ±1%, ±2% and ±5%
- Insulation resistance over 100MΩ
- Maximum working voltage (V) is $(P \cdot R)^{1/2}$



Electrical Specifications

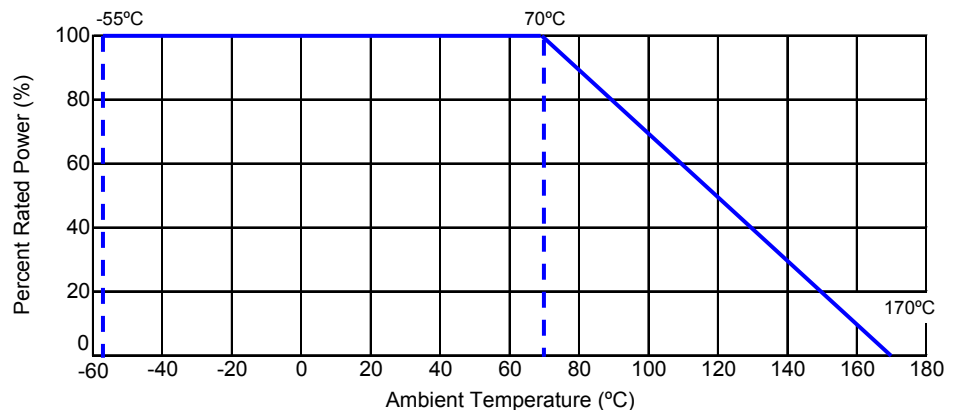
Type / Code	Package Type	Power Rating (Watts) @ 70°C	Dielectric Withstanding Voltage	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance
					1%, 2%, 5%
CSSK	0612	1W	200V	±275 ppm/°C	0.00055 - 0.002

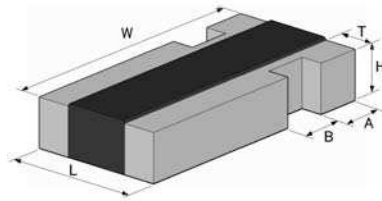
Performance Characteristics

Test	Reference Standard	Test Condition	Test Limits
Temperature Coefficient of Resistance	IEC60115-1-4.8 JIS-C5201-4.8	+25°C ~ +125°C	275ppm/°C
Load Life	IEC60115-1-4.25.1 JIS-C5201-4.25.1	1000 hours at rated power, 70°C, 1.5 hours "ON", 0.5 hour "OFF"	< ±2%
Short Time Overload	IEC60115-1-4.13 JIS-C5201-4.13	5 X rated power for 5s	< ±0.5%
Moisture no Load	IEC60115-1-4.24.2.1a JIS-C5201-4.24.2.1a	85°C, 85% RH, 1000 hours	< ±0.5%
Temperature Cycle	IEC60115-1-4.19 JIS-C5201-4.19	-55°C and +155°C, 300 cycle, 15 min. per extreme condition	< ±1%
Resistance to Soldering Heat	IEC60115-1-4.18 JIS-C5201-4.18	260 ± 5°C for 10 ± 1 sec 2 cycle	±0.5%
Solderability	IEC60115-1-4.17 JIS-C5201-4.17	245 ± 5°C, 2 ± 0.5 sec	At least 95% of surface area of electrode shall be covered with new solder
High Temperature Exposure	IEC60115-1-4.23.2 JIS-C5201-4.23.2	170°C, 1000hrs	< ±2%
Low Temperature Storage	IEC60115-1-4.23.4 JIS-C5201-4.23.4	-55°C, 1000hrs	< ±0.5%
Substrate Bending	IEC60115-1-4.33 JIS-5201-4.33	Bending width 2mm	< ±0.5%
Insulation Resistance	IEC60115-1-4.6 JIS-5201-4.6	100V DC for 1 minute	> 100MΩ

Operating Temperature Range: -55 to + 170°C

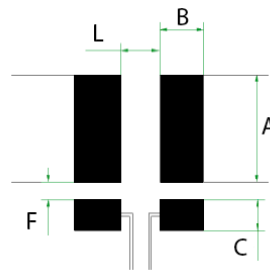
Power Derating Curve:





Mechanical Specifications

Type / Code	L	W	H	T	A	B	Unit
CSSK0612	0.059 ± 0.010 1.50 ± 0.25	0.120 ± 0.010 3.05 ± 0.25	0.024 ± 0.008 0.60 ± 0.20	0.016 ± 0.010 0.40 ± 0.25	0.020 ± 0.005 0.51 ± 0.13	0.020 ± 0.005 0.51 ± 0.13	inches mm



Solder Pad Dimensions

Type / Code	Resistance Range (mΩ)	A	B	C	L	F	Unit
CSSK0612	0.05 - 1	0.089 2.25	0.037 0.95	0.030 0.75	0.031 0.80	0.016 0.40	inches mm

Note: 1 watt with total solder pad and trace size of 300mm2

How to Order

1	2	3	4	5	6	7	8	9	10	11	12	13	14
C	S	S	K	0	6	1	2	F	T	2	L	0	0
Product Series		Size		Power		Tolerance		Code	Description	Size	Quantity	Resistance Value	
CSSK	Kelvin Terminated Current Sensing Resistor	0612		1W		Code	Tol	T	Tape & Reel	0612	4,000	Four characters with "L" used as multiplier of 10 ⁻³ for any value under 0.1 ohm. 0.55 milliohm = L550 2.0 milliohm = 2L00	
						F	1%						
						G	2%						
						J	5%						

Legacy Part Number (before January 3, 2011):

SEI Type		Code			Nominal Resistance	Tolerance	Packaging			
CSSK		0612			0.002	1%	R			
Type	Description	Code	Wattage	Size	Tolerance		SEI Types	Pkg Qty	Description	Code
CSSK	Kelvin Terminated	0612	1W	0612	1%		0612	4,000	Tape	R
					2%					
					5%					