

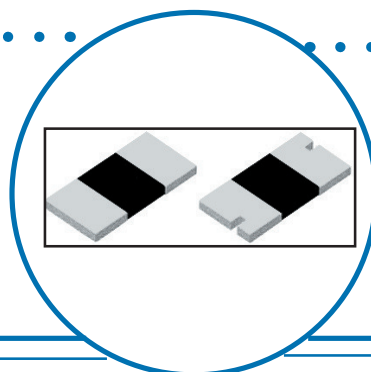
CSS SERIES

OBSOLETE



CURRENT SENSE SMT CHIP RESISTOR

- 1 watt in a 2512 package size (2W @ 25°C)
- Available in 2 & 4 terminal (Kelvin) designs
- Very low resistance range ($.0005\Omega$ to $.003\Omega$)
- High current handling capacity (45 amps continuous max)
- Low TCR (20 ppm/°C) resistor alloy
- $\pm 5\%$ & 1% Standard Tolerance (see note on 1% tolerance)



FEATURES:

- Low Inductance
- Rugged Construction
- Surface Mount

APPLICATIONS:

- Current Sensing
- Feed Back
- High Frequency

OPERATING CHARACTERISTICS:

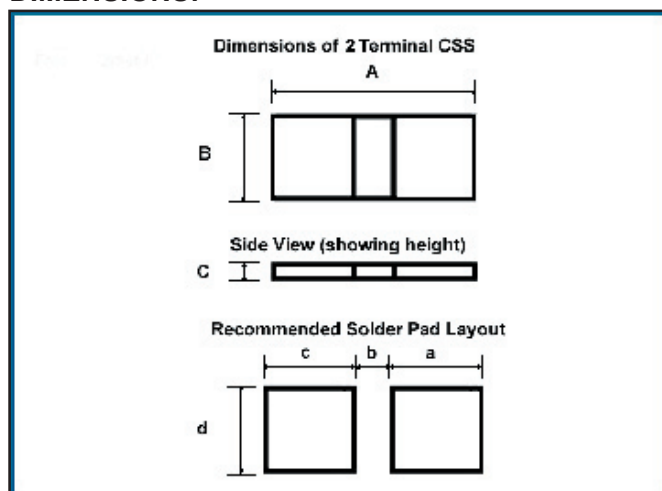
- Load Life @ 70°C: 1% Δ Max
- Moisture No Load: 1% Δ Max
- Temp Cycle @ -40°C & +125°C: 1% Δ Max

SPECIFICATIONS:

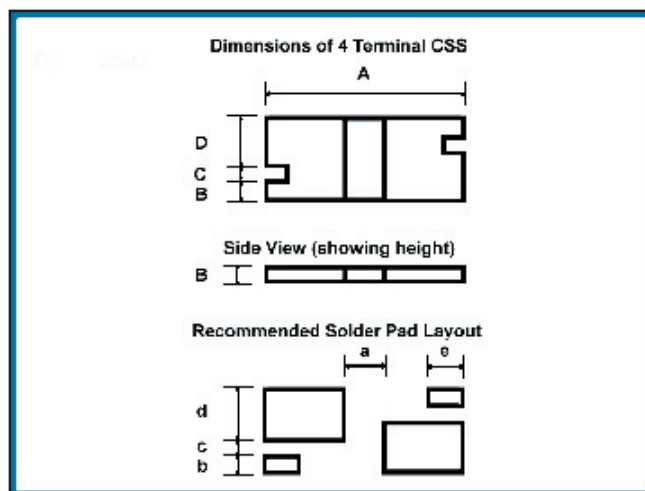
Power (watts)	Current Rating (amps)	Standard Resistance Values (Ω)	Tolerance ($\pm\%$)
1@70° C	Range Dependant (45 cont. max)	0.0005 Ω , 0.001 Ω , 0.0015 Ω & 0.002 Ω , 0.003 Ω *contact factory for other values	5%, 1%*

*Product performance within 1% distribution centered on nominal. Test nominal set by a Tegram 1750 at 25°C as calibrated to the test system's capability.

DIMENSIONS:



	A	B	C	a	b	c	d
Inches	0.250	0.125	0.030	0.120	0.050	0.120	0.145
Millimeters	6.35	3.18	0.76	3.05	1.27	3.05	3.68



	A	B	C	D	a	b	c	d	e
Inches	0.250	0.030	0.020	0.075	0.065	0.020	0.030	0.080	0.055
Millimeters	6.35	0.76	0.51	1.91	1.65	0.51	0.76	2.032	1.397

General Note

IRC reserves the right to make changes in product specification without notice or liability. All information is subject to IRC's own data and is considered accurate at time of going to print.

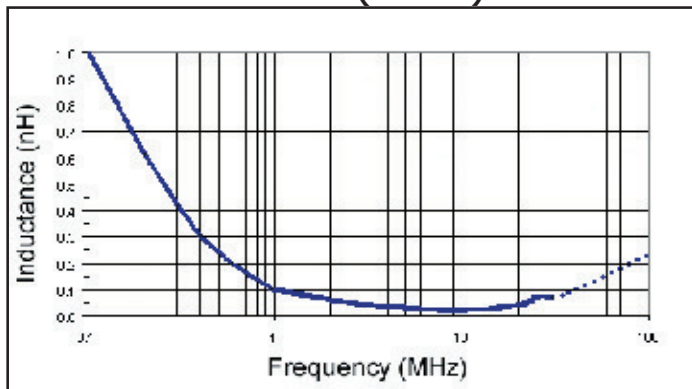
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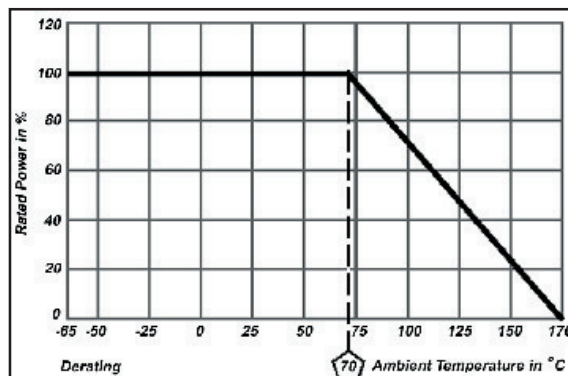


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Inductance Data (R001)



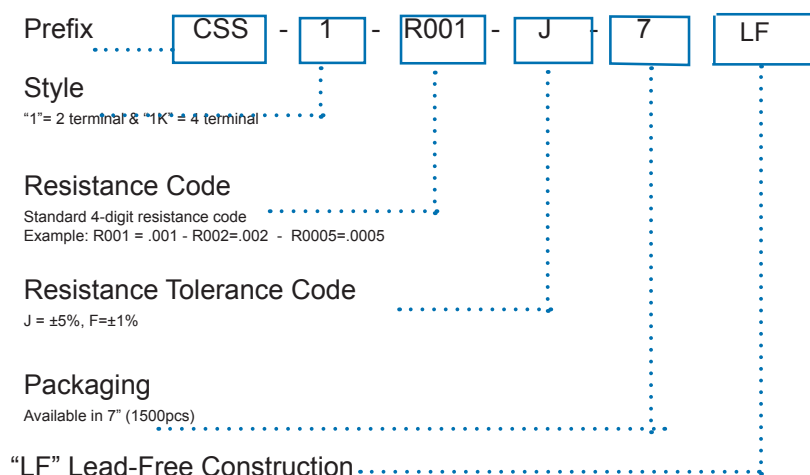
Temperature Derating



TEST PERFORMANCE

Test	Conditions of Test	Test Limits
Load Life	1000 hours @ rated power, +70°C, 1.5 hours "on", 0.5 hours "off"	±(2%) Δ
Moisture Resistance	MIL-STD-202 Method 106, 0% power, 7a and 7b not required	±(2%) Δ
Vibration	Frequency varied 10 to 2000 Hz in 1 minute, 3 directions, 12 hours	±(2%) Δ
Thermal Shock	-55°C to +150°C, 1000 cycles, 15 minutes at each extreme	±(2%) Δ
Short Time Overload	5x power for 5 seconds	±(2%) Δ
Low Temperature Storage	-55°C for 24 hours	±(2%) Δ
High Temperature Exposure	1000 hours @ 170°C	±(2%) Δ
Bias Humidity	+85°C, 85% RH, 10% Bias, 1000 hours	±(2%) Δ
Mechanical Shock	100gs for 6 milliseconds, 5 pulses	±(2%) Δ
Resistance to Solder Heat	+260°C Solder, 10-12 second dwell, 25mm/second emergence	±(2%) Δ

ORDERING PROCEDURE



*For packaging information, see Appendix

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