

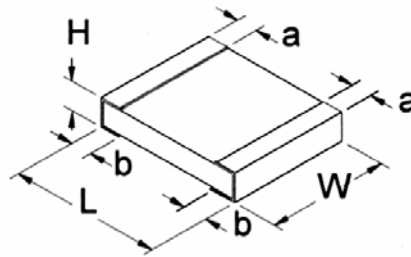
- Features:
- ✓ High power metal alloy current sense resistor
  - ✓ Very low inductance (0.5nH to 5nH)
  - ✓ High temperature performance: up to 275°C
  - ✓ Excellent frequency response
  - ✓ Low thermal EMF (<1µV/C)
  - ✓ Proprietary processing technique produces extremely low resistance values
  - ✓ RoHS compliant / lead-free



Electrical Specifications					
Type / Code	Package Type	Power Rating (Watts) @ 70°C	Resistance Temperature Coefficient	Ohmic Range and Tolerance	
				0.5%	1%, 5%
CSS 1206	1206	0.5W	±50 ppm/°C ±25 ppm/°C ±15 ppm/°C	- 0.007Ω - 0.05Ω -	0.002Ω - 0.004Ω 0.005Ω - 0.015Ω 0.016Ω - 0.05Ω
CSS 2010	2010	1W	±50 ppm/°C ±25 ppm/°C ±15 ppm/°C	- 0.003Ω - 0.0069Ω 0.007Ω - 0.1Ω	0.0005Ω - 0.003Ω 0.004Ω - 0.0069Ω 0.007Ω - 0.1Ω
CSS 2512	2512	2W	±50 ppm/°C ±25 ppm/°C ±15 ppm/°C	- - 0.007Ω - 0.075Ω	0.0005Ω - 0.003Ω 0.004Ω - 0.0069Ω 0.007Ω - 0.075Ω
CSSH 2512	2512	3W	±50 ppm/°C ±25 ppm/°C	0.0005Ω - 0.002Ω 0.003Ω - 0.01Ω	0.0005Ω - 0.002Ω 0.003Ω - 0.01Ω
CSS 2725	2725	4W	±50 ppm/°C ±25 ppm/°C	- -	0.00025Ω - 0.0009Ω 0.001Ω - 0.003Ω
CSS 2728	2728	3W	±25 ppm/°C ±15 ppm/°C	0.004Ω - 0.007Ω 0.008Ω - 0.1Ω	0.004Ω - 0.007Ω 0.008Ω - 0.1Ω
CSSH 2728	2728	4W	±25 ppm/°C ±15 ppm/°C	0.004Ω - 0.007Ω 0.008Ω - 0.05Ω	0.004Ω - 0.007Ω 0.008Ω - 0.05Ω

### How to Order

SEI Type		Code		Nominal Resistance	Tolerance	Packaging			
<b>CSS</b>		<b>2725</b>		<b>0.003</b>	<b>1%</b>	<b>R</b>			
Type	Description	Code	Wattage	Size	Tolerance	SEI Types	Pkg Qty	Description	Code
CSS	Metal Alloy	1206	0.5W	1206	0.5%	ALL	2,000	7" - Embossed Plastic	R
CSSH	High Power	2010	1W	2010	1%, 5%	ALL	1,000	7" - Embossed Plastic	I
		2512	2W	2512					
		(H) 2512	3W	2512					
		2725	4W	2725					
		2728	3W	2728					
		(H) 2728	4W	2728					



Mechanical Specifications						
Type / Code	L Body Length	W Body Width	H Body Height	a Top Termination	b Bottom Termination	Units
CSS 1206	3.15 ± 0.254	1.60 ± 0.254	0.750 ± 0.254	0.50 ± 0.254	0.50 ± 0.254	mm
CSS 2010 (≤3mΩ)	5.10 ± 0.254	2.54 ± 0.254	0.800 ± 0.254	0.80 ± 0.254	0.80 ± 0.254	mm
CSS 2512 (≤4mΩ)	6.25 ± 0.254	3.30 ± 0.254	0.800 ± 0.254	1.88 ± 0.254	1.88 ± 0.254	mm
CSS 2512 (≥5mΩ)	6.25 ± 0.254	3.30 ± 0.254	0.800 ± 0.254	1.13 ± 0.254	1.13 ± 0.254	mm
CSSH 2512 (≤1.5mΩ)	6.25 ± 0.254	3.30 ± 0.254	0.800 ± 0.254	1.88 ± 0.254	1.88 ± 0.254	mm
CSSH 2512 (≥2mΩ)	6.25 ± 0.254	3.30 ± 0.254	0.800 ± 0.254	1.13 ± 0.254	1.13 ± 0.254	mm
CSS 2725 (0.25mΩ)	6.80 ± 0.254	6.70 ± 0.254	1.000 ± 0.254	2.15 ± 0.254	2.15 ± 0.254	mm
CSS 2725 (1mΩ)	6.80 ± 0.254	6.70 ± 0.254	1.010 ± 0.254	2.15 ± 0.254	2.15 ± 0.254	mm
CSS 2725 (1.5mΩ)	6.80 ± 0.254	6.70 ± 0.254	1.000 ± 0.254	2.15 ± 0.254	2.15 ± 0.254	mm
CSS 2725 (2mΩ)	6.80 ± 0.254	6.70 ± 0.254	0.900 ± 0.254	1.80 ± 0.254	1.80 ± 0.254	mm
CSS 2725 (2.5mΩ)	6.80 ± 0.254	6.70 ± 0.254	0.900 ± 0.254	1.65 ± 0.254	1.65 ± 0.254	mm
CSS 2725 (3mΩ)	6.80 ± 0.254	6.70 ± 0.254	0.900 ± 0.254	1.30 ± 0.254	1.30 ± 0.254	mm
CSS 2728	7.20 ± 0.254	6.70 ± 0.254	1.000 ± 0.254	1.15 ± 0.254	1.15 ± 0.254	mm
CSSH 2728	7.20 ± 0.254	6.70 ± 0.254	1.000 ± 0.254	1.15 ± 0.254	1.15 ± 0.254	mm

Performance Characteristics			
Test	Test Method	Test Specification	Typical
Load Life	MIL-STD-502F-Method 108A RCWV at 70°C; 1.5hrs ON; 0.5hrs OFF Total 1024 ± 24hrs	± 0.5%	≤ 0.5%
Resistance to Soldering Heat	MIL-STD-202F-Method 210E 260 ± 5°C for 10 ± 1sec	± 0.5%	≤ 0.25%
Solderability	MIL-STD-202F-Method 208H 245 ± 5°C for 2 ± 0.5sec	minimum 95% coverage	> 95%
Thermal Shock	MIL-STD-202F-Method 107G -55°C to 150°C, 100 cycles	± 0.5%	≤ 0.5%
Short Time Overload	JIS-C-5202-5.5 5x rated power for 5 sec	± 0.5%	≤ 0.5%
Temperature Cycling	JIS-C-5202-7.4 -55°C: 30 min. 25°C: 2 to 3 min. 155°C: 30min. 25°C: 2 to 3 min.	± 0.5%	≤ 0.5%
Moisture Resistance	MIL-STD-202F-Method 106G	± 0.5%	≤ 0.5%
Insulation Resistance	MIL-STD-202F-Method 302 Apply 100Vdc for 1 minute	1MΩ minimum	≥ 1MΩ
Leach Resistance	-	90 seconds minimum	≥ 90 seconds

Operating Temperature Range: -65°C to +275°C