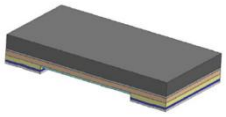
Features:



- High temperature performance up to 225°C (for operation up to 275ºC, contact Stackpole)
- Low thermal EMF (< 1µ V/C) typically
- RoHS compliant, REACH compliant, lead free, and halogen free
- AEC-Q200 compliant

Electrical Specifications

Type/Code	Maximum Power Rating (W)	TCR (ppm/ºC)	Ohmic Range (Ω) and Tolerance		
			0.5%	1%	5%
CSS0201	0.2	± 200	-	0.01, 0.02	-
CSS0402	0.33	± 150	-	0.0025	-
		± 100	-	0.005, 0.006, 0.008, 0.01, 0.015, 0.02	-
CSS0603	0.33	± 150	-	0.002	-
		± 100	-	0.0025, 0.003, 0.004, 0.005	-
		± 75	-	0.01, 0.015, 0.02	-
CSS0508	1	± 150	-	0.001, 0.0015	-
		± 100		0.002, 0.003, 0.004, 0.005	-
CSS0805	0.5	± 100	-	0.0015	-
		± 75	-	0.002, 0.003, 0.004, 0.005	-
		± 50	-	0.006, 0.007, 0.01, 0.015, 0.02	-
CSSH0805	1	± 100	-	0.0005	
		± 75	-	0.001 - 0.002	
		± 50	0.007 - 0.013	0.0025 - 0.013	
CSS1206	1	± 175	-	0.0005	
		± 75	0.005 - 0.006	-	
		± 50	-	0.001 - 0.004	
		± 25	0.007 - 0.015	0.005 - 0.015	
		± 15	0.016 - 0.05		
CSSH1206	2	± 175	-	0.0005	
		± 75	0.005	0.001 - 0.005	
CSSH1210	2	± 150	0.0005		
		± 75	0.001 - 0.01		
CSS2010	1	± 100	-	0.0005	
		± 50	-	0.001 - 0.003	
		± 25	0.007 - 0.015	0.004 - 0.006	
		± 15	0.016 - 0.049	0.007 - 0.1	
CSSH2010	2	± 100	-	0.0005	
		± 75	-	0.001	
		± 50	-	0.002 - 0.006	
		± 25	0.007 - 0.012		

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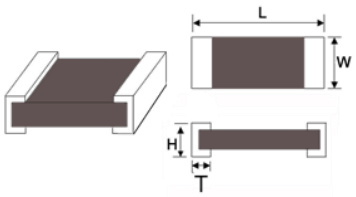
Electrical Specifications (cont.)

Type/Code	Maximum Power Rating (W)	TCR (ppm/ºC)	Ohmic Range (Ω) and Tolerance		
			0.5%	1%	5%
CSS2512	2	± 150	-	0.0003	
		± 75	0.001	-	
		± 50	0.002 - 0.003	0.0005 - 0.003	
		± 25	0.004 - 0.006	0.004 - 0.006, 0.08 - 0.5	
		± 15	0.007 - 0.05	0.007 - 0.075	
CSSH2512	3	± 150	-	0.0003	
		± 75	0.001	-	
		± 50	0.002 - 0.0025	0.0005 - 0.0025	
			0.011 - 0.05	0.011 - 0.1	
		± 25	0.003 - 0.01		
CSS2725	4	± 100	-	0.0002	
		± 50	-	0.00025 - 0.003	
CSS2728	3	± 25	0.004 - 0.007	0.011 - 0.02, 0.11 - 0.2	
		± 15	0.008 - 0.019	0.008 - 0.1	
CSSH2728	4	± 25	0.004 - 0.007		
		± 15	0.008 - 0.018	0.008 - 0.05	
CSSH3637	7	± 50	0.0005, 0.00075	0.0003, 0.0005, 0.00075	
	6	± 50	0.001		
CSS4527	5	± 50	0.007 - 0.12	0.0005 - 0.2	

$V = \sqrt{(P*R)}$

Mechanical Specifications



Type/Code	Maximum Power Rating (W)	Resistance Range (Ω)	L	W	H	T	Unit
CSS0201	0.2	0.01, 0.02	0.024 ± 0.006 0.60 ± 0.15	0.012 ± 0.006 0.30 ± 0.15	0.010 ± 0.004 0.25 ± 0.10	0.006 ± 0.004 0.15 ± 0.10	inches mm
CSS0402	0.33	0.0025	0.039 ± 0.006 1.00 ± 0.15	0.022 ± 0.006 0.55 ± 0.15	0.012 ± 0.004 0.30 ± 0.10	0.012 ± 0.004 0.30 ± 0.10	inches mm
		0.005 - 0.02	0.039 ± 0.006 1.00 ± 0.15	0.022 ± 0.006 0.55 ± 0.15	0.012 ± 0.004 0.30 ± 0.10	0.009 ± 0.004 0.23 ± 0.10	inches mm
CSS0603	0.33	0.002	0.063 ± 0.010 1.60 ± 0.25	0.031 ± 0.010 0.80 ± 0.25	0.016 ± 0.010 0.40 ± 0.25	0.018 ± 0.008 0.45 ± 0.20	inches mm
		0.0025, 0.003	0.063 ± 0.010 1.60 ± 0.25	0.031 ± 0.010 0.80 ± 0.25	0.016 ± 0.010 0.40 ± 0.25	0.014 ± 0.008 0.35 ± 0.20	inches mm
		0.004 - 0.02	0.063 ± 0.010 1.60 ± 0.25	0.031 ± 0.010 0.80 ± 0.25	0.016 ± 0.010 0.40 ± 0.25	0.012 ± 0.008 0.30 ± 0.20	inches mm

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Mechanical Specifications (cont.)

Type/Code	Maximum Power Rating (W)	Resistance Range (Ω)	L	W	H	T	Unit
CSS0508	1	0.001	0.049 ± 0.010 1.25 ± 0.25	0.079 ± 0.010 2.00 ± 0.25	0.017 ± 0.006 0.42 ± 0.15	0.015 ± 0.010 0.38 ± 0.25	inches mm
		0.0015	0.049 ± 0.010 1.25 ± 0.25	0.079 ± 0.010 2.00 ± 0.25	0.017 ± 0.006 0.42 ± 0.15	0.015 ± 0.010 0.37 ± 0.25	inches mm
		0.002	0.049 ± 0.010 1.25 ± 0.25	0.079 ± 0.010 2.00 ± 0.25	0.017 ± 0.006 0.42 ± 0.15	0.014 ± 0.010 0.36 ± 0.25	inches mm
		0.003 - 0.005	0.049 ± 0.010 1.25 ± 0.25	0.079 ± 0.010 2.00 ± 0.25	0.017 ± 0.006 0.42 ± 0.15	0.013 ± 0.010 0.32 ± 0.25	inches mm
CSS0805	0.5	0.0015	0.079 ± 0.010 2.00 ± 0.25	0.049 ± 0.010 1.25 ± 0.25	0.016 ± 0.010 0.40 ± 0.25	0.028 ± 0.008 0.70 ± 0.20	inches mm
		0.002	0.079 ± 0.010 2.00 ± 0.25	0.049 ± 0.010 1.25 ± 0.25	0.016 ± 0.010 0.40 ± 0.25	0.024 ± 0.008 0.60 ± 0.20	inches mm
		0.003 - 0.02	0.079 ± 0.010 2.00 ± 0.25	0.049 ± 0.010 1.25 ± 0.25	0.016 ± 0.010 0.40 ± 0.25	0.016 ± 0.008 0.40 ± 0.20	inches mm
CSSH0805	1	0.0005	0.081 ± 0.010 2.05 ± 0.25	0.051 ± 0.012 1.30 ± 0.30	0.024 ± 0.008 0.60 ± 0.20	0.030 ± 0.008 0.75 ± 0.20	inches mm
		0.001	0.081 ± 0.010 2.05 ± 0.25	0.051 ± 0.012 1.30 ± 0.30	0.022 ± 0.008 0.55 ± 0.20	0.016 ± 0.008 0.40 ± 0.20	inches mm
		0.0015	0.081 ± 0.010 2.05 ± 0.25	0.051 ± 0.012 1.30 ± 0.30	0.018 ± 0.008 0.45 ± 0.20	0.016 ± 0.008 0.40 ± 0.20	inches mm
		0.002	0.081 ± 0.010 2.05 ± 0.25	0.051 ± 0.012 1.30 ± 0.30	0.014 ± 0.008 0.35 ± 0.20	0.016 ± 0.008 0.40 ± 0.20	inches mm
		0.0025	0.081 ± 0.010 2.05 ± 0.25	0.051 ± 0.012 1.30 ± 0.30	0.018 ± 0.008 0.45 ± 0.20	0.016 ± 0.008 0.40 ± 0.20	inches mm
		0.003 - 0.008	0.081 ± 0.010 2.05 ± 0.25	0.051 ± 0.012 1.30 ± 0.30	0.014 ± 0.008 0.35 ± 0.20	0.016 ± 0.008 0.40 ± 0.20	inches mm
		0.009 - 0.013	0.081 ± 0.010 2.05 ± 0.25	0.051 ± 0.012 1.30 ± 0.30	0.015 ± 0.008 0.37 ± 0.20	0.016 ± 0.008 0.40 ± 0.20	inches mm
CSS1206	1	0.0005	0.126 ± 0.010 3.20 ± 0.25	0.063 ± 0.010 1.60 ± 0.25	0.045 ± 0.010 1.15 ± 0.25	0.029 ± 0.010 0.73 ± 0.25	inches mm
		0.001 - 0.0015	0.126 ± 0.010 3.20 ± 0.25	0.063 ± 0.010 1.60 ± 0.25	0.025 ± 0.010 0.65 ± 0.25	0.020 ± 0.010 0.51 ± 0.25	inches mm
		0.002 - 0.004	0.126 ± 0.010 3.20 ± 0.25	0.063 ± 0.010 1.60 ± 0.25	0.022 ± 0.010 0.55 ± 0.25	0.020 ± 0.010 0.51 ± 0.25	inches mm
		0.005	0.126 ± 0.010 3.20 ± 0.25	0.063 ± 0.010 1.60 ± 0.25	0.022 ± 0.010 0.55 ± 0.25	0.024 ± 0.010 0.60 ± 0.25	inches mm
		0.006 - 0.05	0.126 ± 0.010 3.20 ± 0.25	0.063 ± 0.010 1.60 ± 0.25	0.022 ± 0.010 0.55 ± 0.25	0.020 ± 0.010 0.51 ± 0.25	inches mm

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Mechanical Specifications (cont.)

Type/Code	Maximum Power Rating (W)	Resistance Range (Ω)	L	W	H	T	Unit
CSSH1206	2	0.0005	0.126 ± 0.010 3.20 ± 0.25	0.063 ± 0.010 1.60 ± 0.25	0.045 ± 0.010 1.15 ± 0.25	0.029 ± 0.010 0.73 ± 0.25	inches mm
		0.001	0.126 ± 0.010 3.20 ± 0.25	0.063 ± 0.010 1.60 ± 0.25	0.025 ± 0.010 0.65 ± 0.25	0.020 ± 0.010 0.51 ± 0.25	inches mm
		0.002 - 0.004	0.126 ± 0.010 3.20 ± 0.25	0.063 ± 0.010 1.60 ± 0.25	0.021 ± 0.010 0.55 ± 0.25	0.020 ± 0.010 0.51 ± 0.25	inches mm
		0.005	0.126 ± 0.010 3.20 ± 0.25	0.063 ± 0.010 1.60 ± 0.25	0.021 ± 0.010 0.55 ± 0.25	0.024 ± 0.010 0.60 ± 0.25	inches mm
CSSH1210	2	0.0005	0.126 ± 0.010 3.20 ± 0.25	0.100 ± 0.010 2.54 ± 0.25	0.039 ± 0.010 1.00 ± 0.25	0.024 ± 0.010 0.60 ± 0.25	inches mm
		0.001 - 0.01	0.126 ± 0.010 3.20 ± 0.25	0.100 ± 0.010 2.54 ± 0.25	0.035 ± 0.010 0.88 ± 0.25	0.024 ± 0.010 0.60 ± 0.25	inches mm
CSS2010	1	0.0005	0.200 ± 0.010 5.08 ± 0.25	0.100 ± 0.010 2.54 ± 0.25	0.031 ± 0.010 0.79 ± 0.25	0.057 ± 0.010 1.44 ± 0.25	inches mm
		0.001 - 0.003	0.200 ± 0.010 5.08 ± 0.25	0.100 ± 0.010 2.54 ± 0.25	0.031 ± 0.010 0.79 ± 0.25	0.051 ± 0.010 1.30 ± 0.25	inches mm
		0.004 - 0.1	0.200 ± 0.010 5.08 ± 0.25	0.100 ± 0.010 2.54 ± 0.25	0.025 ± 0.010 0.65 ± 0.25	0.031 ± 0.010 0.79 ± 0.25	inches mm
CSSH2010	2	0.0005 - 0.0009	0.200 ± 0.010 5.08 ± 0.25	0.100 ± 0.010 2.54 ± 0.25	0.031 ± 0.010 0.79 ± 0.25	0.057 ± 0.010 1.44 ± 0.25	inches mm
		0.001 - 0.003	0.200 ± 0.010 5.08 ± 0.25	0.100 ± 0.010 2.54 ± 0.25	0.031 ± 0.010 0.79 ± 0.25	0.051 ± 0.010 1.30 ± 0.25	inches mm
		0.004 - 0.012	0.200 ± 0.010 5.08 ± 0.25	0.100 ± 0.010 2.54 ± 0.25	0.025 ± 0.010 0.65 ± 0.25	0.031 ± 0.010 0.79 ± 0.25	inches mm
CSS2512	2	0.0003	0.246 ± 0.010 6.25 ± 0.25	0.126 ± 0.010 3.20 ± 0.25	0.045 ± 0.010 1.15 ± 0.25	0.080 ± 0.010 2.02 ± 0.25	inches mm
		0.0005 - 0.0007	0.246 ± 0.010 6.25 ± 0.25	0.126 ± 0.010 3.20 ± 0.25	0.031 ± 0.010 0.79 ± 0.25	0.080 ± 0.010 2.02 ± 0.25	inches mm
		0.00075	0.246 ± 0.010 6.25 ± 0.25	0.126 ± 0.010 3.20 ± 0.25	0.031 ± 0.010 0.79 ± 0.25	0.054 ± 0.010 1.37 ± 0.25	inches mm
		0.001 - 0.004	0.246 ± 0.010 6.25 ± 0.25	0.126 ± 0.010 3.20 ± 0.25	0.031 ± 0.010 0.79 ± 0.25	0.074 ± 0.010 1.88 ± 0.25	inches mm
		0.005 - 0.075	0.246 ± 0.010 6.25 ± 0.25	0.126 ± 0.010 3.20 ± 0.25	0.026 ± 0.010 0.65 ± 0.25	0.044 ± 0.010 1.12 ± 0.25	inches mm
		0.08 - 0.1	0.246 ± 0.010 6.25 ± 0.25	0.126 ± 0.010 3.20 ± 0.25	0.026 ± 0.010 0.65 ± 0.25	0.025 ± 0.010 0.62 ± 0.25	inches mm
		0.3 - 0.5	0.246 ± 0.010 6.25 ± 0.25	0.126 ± 0.010 3.20 ± 0.25	0.028 ± 0.010 0.72 ± 0.25	0.034 ± 0.010 0.87 ± 0.25	inches mm

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Mechanical Specifications (cont.)

Type/Code	Maximum Power Rating (W)	Resistance Range (Ω)	L	W	H	T	Unit
CSSH2512	3	0.0003	0.246 ± 0.010 6.25 ± 0.25	0.126 ± 0.010 3.20 ± 0.25	0.045 ± 0.010 1.15 ± 0.25	0.080 ± 0.010 2.02 ± 0.25	inches mm
		0.0005	0.246 ± 0.010 6.25 ± 0.25	0.126 ± 0.010 3.20 ± 0.25	0.031 ± 0.010 0.79 ± 0.25	0.080 ± 0.010 2.02 ± 0.25	inches mm
		0.00075	0.246 ± 0.010 6.25 ± 0.25	0.126 ± 0.010 3.20 ± 0.25	0.031 ± 0.010 0.79 ± 0.25	0.054 ± 0.010 1.37 ± 0.25	inches mm
		0.001 - 0.0025	0.246 ± 0.010 6.25 ± 0.25	0.126 ± 0.010 3.20 ± 0.25	0.031 ± 0.010 0.79 ± 0.25	0.044 ± 0.010 1.12 ± 0.25	inches mm
		0.003	0.246 ± 0.010 6.25 ± 0.25	0.126 ± 0.010 3.20 ± 0.25	0.031 ± 0.010 0.79 ± 0.25	0.074 ± 0.010 1.88 ± 0.25	inches mm
		0.004	0.246 ± 0.010 6.25 ± 0.25	0.126 ± 0.010 3.20 ± 0.25	0.031 ± 0.010 0.79 ± 0.25	0.066 ± 0.010 1.68 ± 0.25	inches mm
		0.005 - 0.01	0.246 ± 0.010 6.25 ± 0.25	0.126 ± 0.010 3.20 ± 0.25	0.026 ± 0.010 0.65 ± 0.25	0.044 ± 0.010 1.12 ± 0.25	inches mm
		0.011 - 0.075(*)	0.246 ± 0.010 6.25 ± 0.25	0.126 ± 0.010 3.20 ± 0.25	0.039 ± 0.010 1.00 ± 0.25	0.044 ± 0.010 1.12 ± 0.25	inches mm
		0.08 - 0.1(*)	0.246 ± 0.010 6.25 ± 0.25	0.126 ± 0.010 3.20 ± 0.25	0.039 ± 0.010 1.00 ± 0.25	0.034 ± 0.010 0.87 ± 0.25	inches mm
CSS2725	4	0.0002 - 0.0003	0.268 ± 0.010 6.81 ± 0.25	0.254 ± 0.010 6.45 ± 0.25	0.039 ± 0.010 0.99 ± 0.25	0.085 ± 0.010 2.16 ± 0.25	inches mm
		0.0005	0.268 ± 0.010 6.81 ± 0.25	0.254 ± 0.010 6.45 ± 0.25	0.039 ± 0.010 0.99 ± 0.25	0.085 ± 0.010 2.16 ± 0.25	inches mm
		0.00075	0.268 ± 0.010 6.81 ± 0.25	0.254 ± 0.010 6.45 ± 0.25	0.039 ± 0.010 0.99 ± 0.25	0.059 ± 0.010 1.50 ± 0.25	inches mm
		0.001	0.268 ± 0.010 6.81 ± 0.25	0.254 ± 0.010 6.45 ± 0.25	0.043 ± 0.010 1.09 ± 0.25	0.085 ± 0.010 2.16 ± 0.25	inches mm
		0.0015	0.268 ± 0.010 6.81 ± 0.25	0.254 ± 0.010 6.45 ± 0.25	0.039 ± 0.010 0.99 ± 0.25	0.085 ± 0.010 2.16 ± 0.25	inches mm
		0.002	0.268 ± 0.010 6.81 ± 0.25	0.254 ± 0.010 6.45 ± 0.25	0.035 ± 0.010 0.89 ± 0.25	0.071 ± 0.010 1.80 ± 0.25	inches mm
		0.0025	0.268 ± 0.010 6.81 ± 0.25	0.254 ± 0.010 6.45 ± 0.25	0.035 ± 0.010 0.89 ± 0.25	0.065 ± 0.010 1.65 ± 0.25	inches mm
		0.003	0.268 ± 0.010 6.81 ± 0.25	0.254 ± 0.010 6.45 ± 0.25	0.035 ± 0.010 0.89 ± 0.25	0.051 ± 0.010 1.30 ± 0.25	inches mm
CSS2728	3	0.004 - 0.2	0.264 ± 0.010 6.71 ± 0.25	0.283 ± 0.010 7.19 ± 0.25	0.039 ± 0.010 0.99 ± 0.25	0.045 ± 0.010 1.14 ± 0.25	inches mm
CSSH2728	4	0.004 - 0.05	0.264 ± 0.010 6.71 ± 0.25	0.283 ± 0.010 7.19 ± 0.25	0.039 ± 0.010 0.99 ± 0.25	0.045 ± 0.010 1.14 ± 0.25	inches mm

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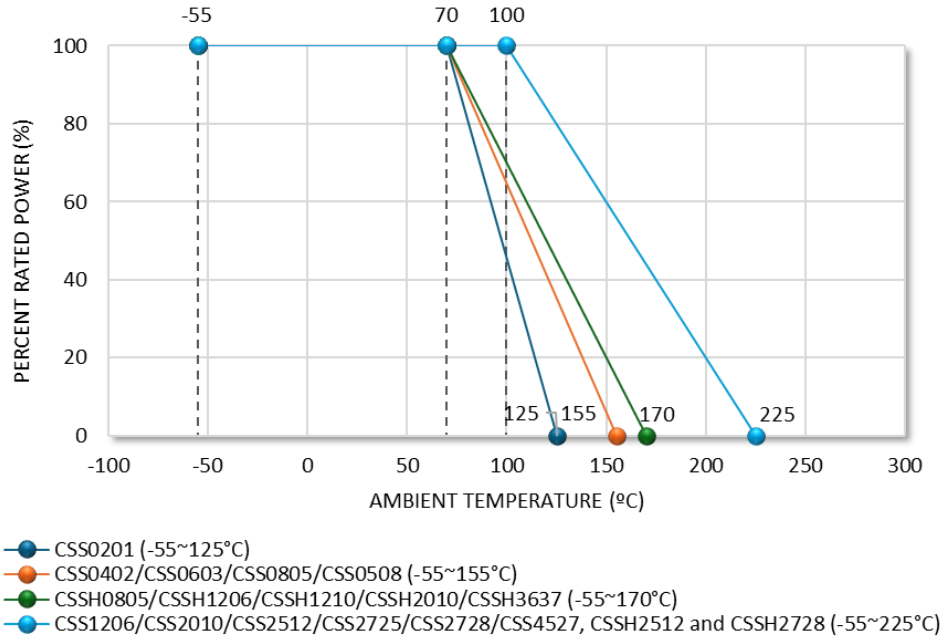
Mechanical Specifications (cont.)							
Type/Code	Maximum Power Rating (W)	Resistance Range (Ω)	L	W	H	T	Unit
CSSH3637	7	0.0003	0.362 ± 0.010 9.20 ± 0.25	0.378 ± 0.010 9.60 ± 0.25	0.029 ± 0.010 0.73 ± 0.25	0.111 ± 0.010 2.83 ± 0.25	inches mm
		0.0005	0.362 ± 0.010 9.20 ± 0.25	0.378 ± 0.010 9.60 ± 0.25	0.029 ± 0.010 0.73 ± 0.25	0.098 ± 0.010 2.49 ± 0.25	inches mm
		0.00075	0.362 ± 0.010 9.20 ± 0.25	0.378 ± 0.010 9.60 ± 0.25	0.029 ± 0.010 0.73 ± 0.25	0.090 ± 0.010 2.28 ± 0.25	inches mm
	6	0.001	0.362 ± 0.010 9.20 ± 0.25	0.378 ± 0.010 9.60 ± 0.25	0.029 ± 0.010 0.73 ± 0.25	0.090 ± 0.010 2.28 ± 0.25	inches mm
CSS4527	5	0.0005	0.450 ± 0.010 11.43 ± 0.25	0.270 ± 0.010 6.85 ± 0.25	0.059 ± 0.010 1.50 ± 0.25	0.137 ± 0.010 3.47 ± 0.25	inches mm
		0.00075 - 0.003	0.450 ± 0.010 11.43 ± 0.25	0.270 ± 0.010 6.85 ± 0.25	0.059 ± 0.010 1.50 ± 0.25	0.127 ± 0.010 3.22 ± 0.25	inches mm
		0.004 - 0.005	0.450 ± 0.010 11.43 ± 0.25	0.270 ± 0.010 6.85 ± 0.25	0.059 ± 0.010 1.50 ± 0.25	0.127 ± 0.010 3.22 ± 0.25	inches mm
		0.006 - 0.2	0.450 ± 0.010 11.43 ± 0.25	0.270 ± 0.010 6.85 ± 0.25	0.059 ± 0.010 1.50 ± 0.25	0.072 ± 0.010 1.82 ± 0.25	inches mm

(*) with heat sink

Power Derating Curve:



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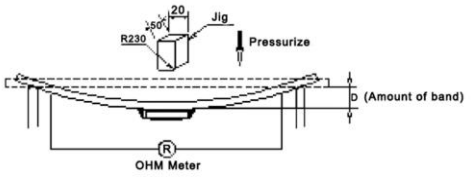
Performance Characteristics

Test	Test Method	Test Specification	Test Condition
Temperature Coefficient of Resistance (TCR)	JIS-C-5201-1 4.8	Per specification (refer to Electrical Specification table)	$TCR\ (ppm/°C) = \frac{(R2 - R1)}{R1\ (T2 - T1)} X\ 10^6$ R1: resistance of room temperature (T1) R2: resistance of 125°C (T2)
Short Time Overload	JIS C 5201-1 4.13	<table><tr><th>Size</th><th>Power (W)</th><th>Max. ΔR Change</th></tr><tr><td>CSS0201</td><td>0.2</td><td>≤ ± 0.5%</td></tr><tr><td>CSS0402</td><td>0.33</td><td>± 1% + 0.5mΩ</td></tr><tr><td>CSS0603</td><td>0.33</td><td>± 1% + 0.5mΩ</td></tr><tr><td>CSS0508</td><td>1</td><td>± 1% + 0.5mΩ</td></tr><tr><td>CSS0805</td><td>0.5</td><td>± 1% + 0.5mΩ</td></tr><tr><td>CSSH0805</td><td>1</td><td>≤ ± 1%</td></tr><tr><td>CSS1206</td><td>1</td><td>≤ ± 0.5%</td></tr><tr><td>CSSH1206</td><td>2</td><td>≤ ± 0.5%</td></tr><tr><td>CSSH1210</td><td>2</td><td>≤ ± 0.5%</td></tr><tr><td>CSS2010</td><td>1</td><td>≤ ± 0.5%</td></tr><tr><td>CSSH2010</td><td>2</td><td>≤ ± 0.5%</td></tr><tr><td>CSS2512</td><td>2</td><td>≤ ± 0.5%</td></tr><tr><td>CSSH2512</td><td>3</td><td>≤ ± 0.5%</td></tr><tr><td>CSS2725</td><td>4</td><td>≤ ± 0.5%</td></tr><tr><td>CSS2728</td><td>3</td><td>≤ ± 0.5%</td></tr><tr><td>CSSH2728</td><td>4</td><td>≤ ± 0.5%</td></tr><tr><td>CSSH3637</td><td>6 and 7</td><td>≤ 0.5% + 0.5mΩ</td></tr><tr><td>CSS4527</td><td>5</td><td>≤ ± 2%</td></tr></table>	The number of rated power are as follows: <table><tr><th>Size</th><th>Power (W)</th><th>Rated Power</th></tr><tr><td>CSS0201</td><td>0.2</td><td>2.5 times</td></tr><tr><td>CSS0402</td><td>0.33</td><td>2.5 times</td></tr><tr><td>CSS0603</td><td>0.33</td><td>2.5 times</td></tr><tr><td>CSS0508</td><td>1</td><td>2.5 times</td></tr><tr><td>CSS0805</td><td>0.5</td><td>2.5 times</td></tr><tr><td>CSSH0805</td><td>1</td><td>4 times</td></tr><tr><td>CSS1206</td><td>1</td><td>5 times</td></tr><tr><td>CSSH1206</td><td>2</td><td>5 times</td></tr><tr><td>CSSH1210</td><td>2</td><td>5 times</td></tr><tr><td>CSS2010</td><td>1</td><td>5 times</td></tr><tr><td>CSSH2010</td><td>2</td><td>5 times</td></tr><tr><td>CSS2512</td><td>2</td><td>5 times</td></tr><tr><td>CSSH2512</td><td>3</td><td>5 times</td></tr><tr><td>CSS2725</td><td>4</td><td>5 times</td></tr><tr><td>CSS2728</td><td>3</td><td>5 times</td></tr><tr><td>CSSH2728</td><td>4</td><td>5 times</td></tr><tr><td>CSSH3637</td><td>6 and 7</td><td>5 times</td></tr><tr><td>CSS4527</td><td>5</td><td>5 times</td></tr></table> Rating power duration: 5 seconds.
Insulation Resistance	JIS-C-5201-1 4.6	$\Delta R \geq 10^9 \Omega$	Put the resistor in the fixture, add 100 VDC in terminal for 60 seconds, then measure the insulation resistance between electrodes and insulating enclosure or between electrodes and base material
Dielectric Withstanding Voltage	JIS-C-5201-1 4.7	No short or burned in the appearance.	Applied 500 VAC for 1 minute and limit surge current 50 mA (max)

Operating Temperature Range of -55 to +125 °C: CSS0201
Operating Temperature Range of -55 to +155 °C: CSS0402, CSS0603, CSS0508, and CSS0805
Operating Temperature Range of -55 to +170 °C: CSSH0805, CSSH1206, CSSH1210, CSSH2010, and CSSH3637
Operating Temperature Range of -55 to + 225 °C: CSS1206, CSS2010, CSS2512, CSSH2512, CSS2725, CSS2728, CSSH2728, and CSS4527

Mechanical Performance

Test Item	Test Method	Test Specifications	Test Condition
Resistance to Solder Heat	JIS C 5201-1 4.18	0201 - 0805: ΔR ≤ ±(1% + 0.5mΩ) CSSH0805 and above 1206: ΔR ≤ ±(0.5% + 0.5mΩ) CSSH3637: ΔR ≤ ±(0.5% + 0.5mΩ) Jumper < Rmax	260 ± 5°C for 10 ± 1 seconds
Solderability	JIS C 5201-1 4.17	> 95 % coverage	245 ± 5°C for 3 ± 0.5 seconds
Substrate Bending	JIS C 5201-1 4.33	ΔR ±(1% + 0.5mΩ) CSSH3637: ΔR ≤ ±(0.5% + 0.5mΩ)	Span between fulcrums: 90 mm Bend width: 2 mm 

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Mechanical Performance (cont.)			
Test Item	Test Method	Test Specifications	Test Condition
Resistance to Solvent	JIS C 5201-1 4.29	ΔR ≤ ± 0.5% No evidence of mechanical damage	The tested resistor is immersed into isopropyl alcohol of 20 ~ 25°C for 60 seconds, then the resistor is left in the room for 48 hours.
Vibration	JIS C 5201-1 4.22	ΔR ≤ ± 0.5% No evidence of mechanical damage	The resistor shall be mounted by its terminal leads to the supporting terminals on the solid table. The entire frequency range from 10 Hz to 55 Hz and return to 10 Hz, shall be transferred in 1 minute. Amplitude: 1.5 mm. This motion shall be applied for a period of 4 hours in each 3 mutually perpendicular directions (a total of 12 hours)
Mechanical Shock	JIS C 5202 6.7	ΔR ±(1% + 0.5mΩ)	a = 50 G, t = 11 ms, 5 times shock

Environmental Performance			
Test Item	Test Method	Test Specifications	Test Condition
Low Temperature Exposure (Storage)	JIS C 5201-1 4.23.4	0201 - 0805: ΔR ≤ ±(1% + 0.5mΩ) ≥ 1206: ΔR ± 0.5%	1000 hours at -55 ± 2°C
High Temperature Exposure (Storage)	JIS C 5201-1 4.23.2	0201 - 0805: ΔR ≤ ±(1% + 0.5mΩ)	1000 hours at + 155 ± 2°C
		CSSH0805: ΔR ± 1% CSSH3637: ΔR ≤ ±(1% + 0.5mΩ) ≥ 1206: ΔR ± 1%	1000 hours at +170 ± 5°C
		0201 Jumper ΔR < Rmax	1000 hours at + 125 ± 2°C
Temperature Cycling	JESD22 Method JA-104	0201 - 0805: ΔR ≤ ±(1% + 0.5mΩ) CSSH0805: ΔR ≤ ±(0.5% + 0.5mΩ) ≥ 1206: ΔR ≤ ±(0.5% + 0.5mΩ)	-55 to +150°C 30 minutes each, except for 0201 which is -55 to +125°C 30 minutes each.
Biased Humidity	JIS C 5201-1 4.24	0201 - 0805: ΔR ≤ ±(2% + 0.5mΩ) 0201 Jumper ΔR < Rmax	T = 40 ± 2°C , RH = 90~95%, Load with Rated Current 1.5 hours "ON", 0.5 hours "OFF", 1000 hours
		CSSH0805: ΔR ± 0.5% CSSH3637: ΔR ≤ ±(0.5% + 0.5mΩ) ≥ 1206: ΔR ± 0.5%	1000 hours at +85°C / 85% R.H., 10% of operating power 1.5 hours "ON" and 0.5 hours "OFF
Load Life	JIS C 5201-1 4.25	0201 - 0805: ΔR ≤ ±(2% + 0.5mΩ) 0201 Jumper = ΔR < Rmax CSSH0805: ΔR ± 1% CSSH3637: ΔR ≤ ±(1% + 0.5mΩ) 1206 - 2728: ΔR ± 1% 4527: ΔR ± 2%	T = 70 ± 2°C, load with Rated Current 1.5 hours "ON", 0.5 hours "OFF", 1000 hours
Whisker Test	JESD Standard No.22A121 class 2	Max 50 μm	Test item (Thermal Shock Test): Testing Condition Minimum Storage Temperature: -55 +0 / -10°C Maximum Storage Temperature: 85 + 10 / -0°C Temperature-Retaining Time: 10 minutes Number of Temperature Cycles: 1500 Inspection: Inspect for whisker formation on specimens that underwent the acceleration test, with a magnifier (stereo microscope) of about 40 or higher magnification. If judgement is difficult with this method, use a scanning electron microscope (SEM) of about 1000 or higher magnification.

Recommended storage temperature: 25 ± 5°C. Humidity: 60 ± 20%.

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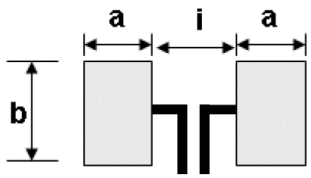
Recommended Solder Pad



Type/Code	Maximum Power Rating (W)	Resistance Range (Ω)	a	b	i	Unit
CSS0201	0.2	0.01, 0.02	0.008 0.20	0.013 0.33	0.010 0.25	inches mm
CSS0402	0.33	0.0025	0.024 0.60	0.024 0.60	0.014 0.35	inches mm
		0.005 - 0.02	0.024 0.60	0.024 0.60	0.016 0.40	inches mm
CSS0603	0.33	0.002	0.056 1.41	0.036 0.92	0.015 0.38	inches mm
		0.0025, 0.003	0.053 1.35	0.036 0.92	0.020 0.50	inches mm
		0.004 - 0.02	0.051 1.30	0.036 0.92	0.024 0.60	inches mm
CSS0508	1	0.001, 0.0015, 0.002	0.035 0.90	0.091 2.30	0.016 0.40	inches mm
		0.003 - 0.005	0.033 0.85	0.091 2.30	0.020 0.50	inches mm
CSS0805	0.5	0.0015, 0.002	0.061 1.55	0.057 1.44	0.020 0.50	inches mm
		0.003 - 0.02	0.055 1.40	0.057 1.44	0.031 0.80	inches mm
CSSH0805	1	0.0005	0.053 1.35	0.071 1.80	0.012 0.30	inches mm
		0.001 - 0.013	0.039 1.00	0.071 1.80	0.039 1.00	inches mm
CSS1206	1	0.0005	0.065 1.65	0.086 2.18	0.035 0.90	inches mm
		0.001 - 0.05	0.063 1.60	0.086 2.18	0.039 1.00	inches mm
CSSH1206	2	0.0005	0.065 1.65	0.086 2.18	0.035 0.90	inches mm
		0.001 - 0.005	0.063 1.60	0.086 2.18	0.039 1.00	inches mm
CSSH1210	2	0.0005 - 0.01	0.049 1.25	0.115 2.92	0.067 1.70	inches mm

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Recommended Solder Pad (cont.)						
Type/Code	Maximum Power Rating (W)	Resistance Range (Ω)	a	b	i	Unit
CSS2010	1	0.0005 - 0.003	0.114 2.89	0.115 2.92	0.048 1.22	inches mm
		0.004 - 0.1	0.090 2.29	0.115 2.92	0.095 2.41	inches mm
CSSH2010	2	0.0005 - 0.003	0.114 2.89	0.115 2.92	0.048 1.22	inches mm
		0.004 - 0.012	0.090 2.29	0.115 2.92	0.095 2.41	inches mm
CSS2512	2	0.0003 - 0.0005	0.120 3.05	0.145 3.68	0.050 1.27	inches mm
		0.00075	0.086 2.19	0.145 3.68	0.118 3.00	inches mm
		0.001 - 0.004	0.120 3.05	0.145 3.68	0.050 1.27	inches mm
		0.005 - 0.5	0.083 2.11	0.145 3.68	0.125 3.18	inches mm
CSSH2512	3	0.0003 - 0.0005	0.120 3.05	0.145 3.68	0.050 1.27	inches mm
		0.001 - 0.0025	0.086 2.19	0.145 3.68	0.118 3.00	inches mm
		0.003 - 0.004	0.110 2.79	0.145 3.68	0.071 1.80	inches mm
		0.011 - 0.1	0.086 2.19	0.145 3.68	0.118 3.00	inches mm
CSS2725	4	0.0002 - 0.003	0.125 3.18	0.270 6.86	0.052 1.32	inches mm
CSS2728	3	0.004 - 0.2	0.108 2.75	0.308 7.82	0.138 3.51	inches mm
CSSH2728	4	0.004 - 0.05	0.108 2.75	0.308 7.82	0.138 3.51	inches mm
CSSH3637	7	0.0003 - 0.00075	0.152 3.85	0.413 10.50	0.114 2.90	inches mm
	6	0.001				
CSS4527	5	0.0005 - 0.005	0.228 5.80	0.344 8.74	0.138 3.51	inches mm
		0.006 - 0.2	0.163 4.15	0.344 8.74	0.268 6.81	inches mm

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Recommended Solder Profiles

This information is intended as a reference for solder profiles for Stackpole resistive components. These profiles should be compatible with most soldering processes. These are only recommendations. Actual numbers will depend on board density, geometry, packages used, etc., especially those cells labeled with "*".

Soldering iron recommended temperatures: 330 to 350°C with minimum duration.
Maximum number of reflow cycles: 3.

Wave Soldering			
Description	Maximum	Recommended	Minimum
Preheat Time	80 seconds	70 seconds	60 seconds
Temperature Diff.	140°C	120°C	100°C
Solder Temp.	260°C	250°C	240°C
Dwell Time at Max.	10 seconds	5 seconds	*
Ramp DN (°C/sec)	N/A	N/A	N/A

Temperature Diff. = Difference between final preheat stage and soldering stage.

Convection IR Reflow			
Description	Maximum	Recommended	Minimum
Ramp Up (°C/sec)	3°C/sec	2°C/sec	*
Dwell Time > 217°C	150 seconds	90 seconds	60 seconds
Solder Temp.	260°C	245°C	*
Dwell Time at Max.	30 seconds	15 seconds	10 seconds
Ramp DN (°C/sec)	6°C/sec	3°C/sec	*

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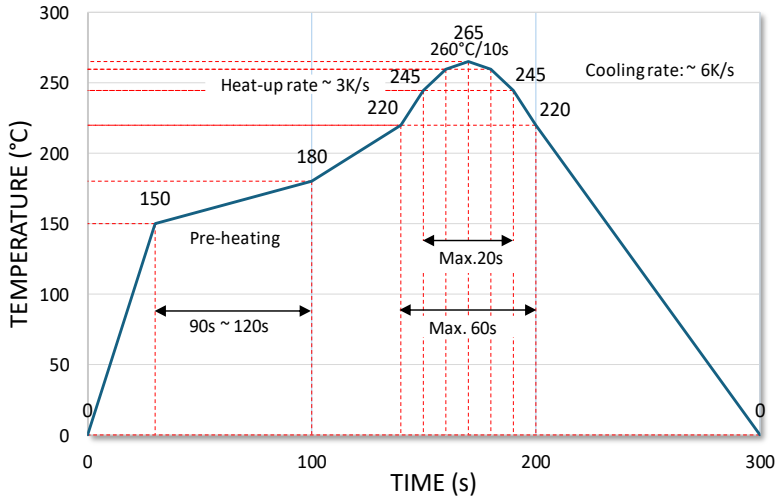
Recommended Resistor Reflow Profile



Number of reflow cycles allowed: 3 times

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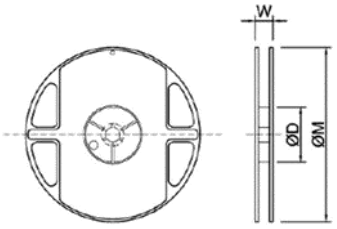
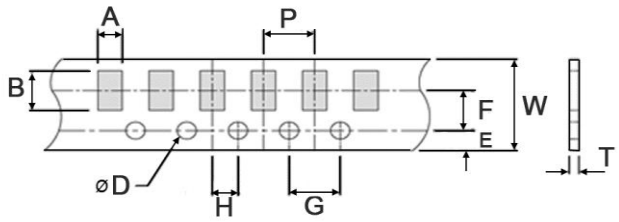
Reel Specifications



Type/Code	Tape Width	W	ØD	ØM	Unit
0201, 0402, 0603 0508, 0805,1206, 1210	8 mm	0.354 ± 0.020 9.00 ± 0.50	2.362 ± 0.079 60.00 ± 2.00	7.008 ± 0.197 178.00 ± 5.00	inches mm
CSSH0805	8 mm	0.472 ± 0.020 12.00 ± 0.50	2.362 ± 0.079 60.00 ± 2.00	7.008 ± 0.197 178.00 ± 5.00	inches mm
CSSH3637	16 mm	0.685 ± 0.039 17.40 ± 1.00	2.362 ± 0.039 60.00 ± 1.00	7.008 ± 0.079 178.00 ± 2.00	inches mm
2010, 2512, 2725, 2728	12 mm	0.543 ± 0.020 13.80 ± 0.50	3.150 ± 0.039 80.00 ± 1.00	7.008 ± 0.197 178.00 ± 5.00	inches mm
4527	24 mm	0.984 ± 0.039 25.00 ± 1.00	2.362 ± 0.039 60.00 ± 1.00	7.008 ± 0.197 178.00 ± 5.00	inches mm

Taping Specifications - Paper Tape



Type/Code	W	P	E	F	ØD	Unit
CSS0201	0.315 ± 0.012 8.00 ± 0.30	0.079 ± 0.004 2.00 ± 0.10	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.004 3.50 ± 0.10	0.059 +0.004 / -0 1.50 +0.1 / -0	inches mm
CSS0402	0.315 ± 0.012 8.00 ± 0.30	0.079 ± 0.004 2.00 ± 0.10	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.004 3.50 ± 0.10	0.059 +0.004 / -0 1.50 +0.1 / -0	inches mm
CSS0603	0.315 ± 0.012 8.00 ± 0.30	0.157 ± 0.004 4.00 ± 0.10	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.004 3.50 ± 0.10	0.059 +0.004 / -0 1.50 +0.1 / -0	inches mm
CSS0508	0.315 ± 0.012 8.00 ± 0.30	0.157 ± 0.004 4.00 ± 0.10	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.004 3.50 ± 0.10	0.059 +0.004 / -0 1.50 +0.1 / -0	inches mm
CSS0805	0.315 ± 0.012 8.00 ± 0.30	0.157 ± 0.004 4.00 ± 0.10	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.004 3.50 ± 0.10	0.059 +0.004 / -0 1.50 +0.1 / -0	inches mm

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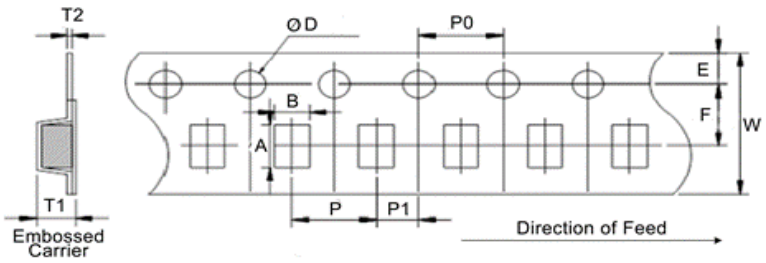
Taping Specifications - Paper Tape (cont.)

Type/Code	G	H	A	B	T	Unit
CSS0201	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.016 ± 0.008 0.40 ± 0.20	0.028 ± 0.008 0.70 ± 0.20	0.018 ± 0.002 0.45 ± 0.05	inches mm
CSS0402	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.026 ± 0.008 0.65 ± 0.20	0.043 ± 0.008 1.10 ± 0.20	0.017 ± 0.002 0.42 ± 0.05	inches mm
CSS0603	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.039 ± 0.008 0.98 ± 0.20	0.073 ± 0.008 1.85 ± 0.20	0.024 ± 0.004 0.60 ± 0.10	inches mm
CSS0508	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.061 ± 0.008 1.55 ± 0.20	0.091 ± 0.008 2.30 ± 0.20	0.028 ± 0.008 0.70 ± 0.20	inches mm
CSS0805	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.061 ± 0.008 1.55 ± 0.20	0.091 ± 0.008 2.30 ± 0.20	0.030 ± 0.008 0.75 ± 0.20	inches mm

Taping Specifications - Plastic Tape



Type/Code	A	B	W	E	F	T1	Unit
CSSH0805 (0.0005Ω - 0.001Ω)	0.096 ± 0.004 2.45 ± 0.10	0.067 ± 0.004 1.70 ± 0.10	0.315 ± 0.012 8.00 ± 0.30	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.004 3.50 ± 0.10	0.035 ± 0.010 0.90 ± 0.25	inches mm
CSSH0805 (0.0015Ω - 0.013Ω)	0.096 ± 0.004 2.45 ± 0.10	0.067 ± 0.004 1.70 ± 0.10	0.315 ± 0.012 8.00 ± 0.30	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.004 3.50 ± 0.10	0.022 ± 0.010 0.55 ± 0.25	inches mm
CSS1206/CSSH1206 (0.0005Ω)	0.138 ± 0.004 3.50 ± 0.10	0.075 ± 0.004 1.90 ± 0.10	0.315 ± 0.006 8.00 ± 0.15	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.004 3.50 ± 0.10	0.050 ± 0.004 1.27 ± 0.10	inches mm
CSS1206/CSSH1206 (>0.0005Ω)	0.137 ± 0.004 3.48 ± 0.10	0.072 ± 0.004 1.83 ± 0.10	0.315 ± 0.006 8.00 ± 0.15	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.004 3.50 ± 0.10	0.043 ± 0.004 1.10 ± 0.10	inches mm
CSSH1210	0.138 ± 0.004 3.50 ± 0.10	0.118 ± 0.004 3.00 ± 0.10	0.315 ± 0.008 8.00 ± 0.20	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.004 3.50 ± 0.10	0.043 ± 0.004 1.10 ± 0.10	inches mm
CSS2010/CSSH2010	0.215 ± 0.004 5.45 ± 0.10	0.114 ± 0.004 2.90 ± 0.10	0.472 ± 0.006 12.00 ± 0.15	0.069 ± 0.004 1.75 ± 0.10	0.217 ± 0.004 5.50 ± 0.10	0.052 ± 0.004 1.33 ± 0.10	inches mm
CSS2512/CSSH2512 (0.0003Ω)	0.265 ± 0.004 6.74 ± 0.10	0.138 ± 0.004 3.50 ± 0.10	0.472 ± 0.006 12.00 ± 0.15	0.069 ± 0.004 1.75 ± 0.10	0.217 ± 0.004 5.50 ± 0.10	0.063 ± 0.004 1.60 ± 0.10	inches mm
CSS2512/CSSH2512 (>0.0003Ω)	0.266 ± 0.004 6.75 ± 0.10	0.138 ± 0.004 3.50 ± 0.10	0.472 ± 0.006 12.00 ± 0.15	0.069 ± 0.004 1.75 ± 0.10	0.217 ± 0.004 5.50 ± 0.10	0.051 ± 0.004 1.30 ± 0.10	inches mm
CSS2725	0.281 ± 0.004 7.15 ± 0.10	0.266 ± 0.004 6.75 ± 0.10	0.472 ± 0.006 12.00 ± 0.15	0.069 ± 0.004 1.75 ± 0.10	0.217 ± 0.004 5.50 ± 0.10	0.077 ± 0.004 1.95 ± 0.10	inches mm
CSS2728	0.281 ± 0.004 7.15 ± 0.10	0.303 ± 0.004 7.70 ± 0.10	0.472 ± 0.006 12.00 ± 0.15	0.069 ± 0.004 1.75 ± 0.10	0.217 ± 0.004 5.50 ± 0.10	0.057 ± 0.004 1.45 ± 0.10	inches mm
CSSH3637	0.394 ± 0.004 10.00 ± 0.10	0.378 ± 0.004 9.60 ± 0.10	0.630 ± 0.008 16.00 ± 0.20	0.069 ± 0.004 1.75 ± 0.10	0.295 ± 0.004 7.50 ± 0.10	0.051 ± 0.004 1.30 ± 0.10	inches mm
CSS4527	0.465 ± 0.004 11.80 ± 0.10	0.283 ± 0.004 7.20 ± 0.10	0.945 ± 0.006 24.00 ± 0.15	0.069 ± 0.004 1.75 ± 0.10	0.453 ± 0.004 11.50 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	inches mm

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Taping Specifications - Plastic Tape (cont.)						
Type/Code	T2	P	P0	P1	ΦD	Unit
CSSH0805 (0.0005Ω - 0.001Ω)	0.008 ± 0.002 0.20 ± 0.05	0.157 ± 0.004 4.00 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.059 +0.004/-0 1.50 +0.10/-0	inches mm
CSSH0805 (0.0015Ω - 0.013Ω)	0.008 ± 0.002 0.20 ± 0.05	0.157 ± 0.004 4.00 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.059 +0.004/-0 1.50 +0.10/-0	inches mm
CSS1206/CSSH1206 (0.0005Ω)	0.009 ± 0.004 0.23 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.059 +0.004/-0 1.50 +0.10/-0	inches mm
CSS1206/CSSH1206 (>0.0005Ω)	0.008 ± 0.002 0.20 ± 0.05	0.157 ± 0.004 4.00 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.059 +0.004/-0 1.50 +0.10/-0	inches mm
CSSH1210	0.009 ± 0.002 0.22 ± 0.05	0.157 ± 0.004 4.00 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.059 +0.004/-0 1.50 +0.10/-0	inches mm
CSS2010/CSSH2010	0.009 ± 0.002 0.23 ± 0.05	0.157 ± 0.004 4.00 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.059 +0.004/-0 1.50 +0.10/-0	inches mm
CSS2512/CSSH2512 (0.0003Ω)	0.009 ± 0.002 0.24 ± 0.05	0.315 ± 0.004 8.00 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.059 +0.004/-0 1.50 +0.10/-0	inches mm
CSS2512/CSSH2512 (>0.0003Ω)	0.008 ± 0.002 0.20 ± 0.05	0.157 ± 0.004 4.00 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.059 +0.004/-0 1.50 +0.10/-0	inches mm
CSS2725	0.010 ± 0.002 0.25 ± 0.05	0.315 ± 0.004 8.00 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.059 +0.004/-0 1.50 +0.10/-0	inches mm
CSS2728	0.010 ± 0.002 0.25 ± 0.05	0.472 ± 0.004 12.00 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.059 +0.004/-0 1.50 +0.10/-0	inches mm
CSSH3637	0.010 ± 0.002 0.25 ± 0.05	0.472 ± 0.004 12.00 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.059 +0.004/-0 1.50 +0.10/-0	inches mm
CSS4527	0.012 ± 0.004 0.30 ± 0.10	0.472 ± 0.004 12.00 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.059 +0.004/-0 1.50 +0.10/-0	inches mm

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
CSS	Ultra-Precision Current Sensing Chip Resistor	SMD	YES	100% Matte Sn over Ni
CSSH	Ultra-Precision Current Sensing Chip Resistor (High Power)	SMD	YES	100% Matte Sn over Ni

This specification may be changed at any time without prior notice.
Please confirm technical specifications before use.

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"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.

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

C	S	S	2	7	2	5	F	T	3	L	0	0

Product Series	
Code	Description
CSS	Metal Alloy
CSSH	High Power

Size
Size
0201
0402
0603
0805
0508
1206
1210
2010
2512
2728
2725
3637

Tolerance	
Code	Tol
D	0.5%
F	1%
G	2%
J	5%

Packaging			
Code	Description	Size	Quantity
T	7" Reel Paper Tape	0201, 0402	10000
		0603, 0508, 0805	5000
	7" Reel Plastic Tape	1206 (>0.0005Ω) 1210 CSS2512 (>0.0003Ω)	4000
		1206 (0.0005) 2010 CSSH2512 (>0.0003Ω)	2000
		2512 (0.0003Ω) 2725, 2728, 3637	1000
		4527	500

Resistance Value
Four characters with the multiplier used as the decimal holder. "L" used as multiplier of 10^{-3} for any value under 0.1 ohm.
0.00025 ohm = L250 0.004 ohm = 4L00 0.05 ohm = 50L0 0.12 ohm = R120

This specification may be changed at any time without prior notice.
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