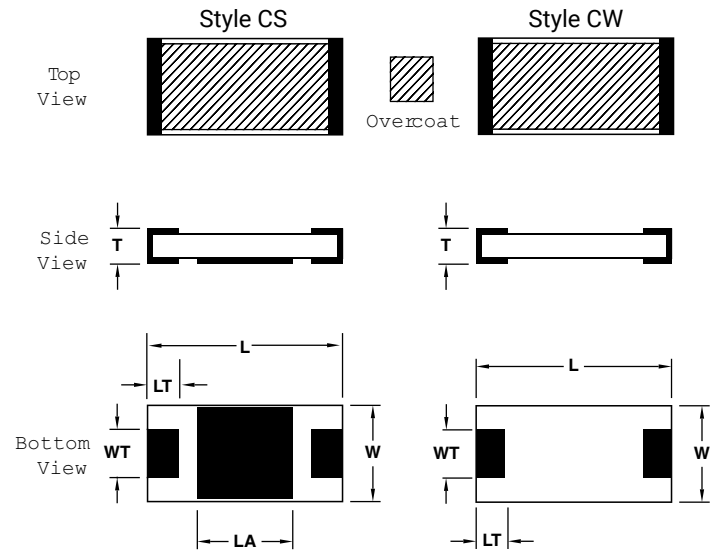


High Power Resistive Products

Surface Mount Chip Resistors - CS/CW Series

GENERAL SPECIFICATIONS

- Resistance:** 50 Ω , 100 Ω standard. Additional values available upon request. (Refer to table below)
- Resistive Tolerance:** $\pm 5\%$ standard. Additional tolerances available. (Refer to How to Order)
- Operating Temp Range:** -55 to +150°C
- Temperature Coefficient:** <150 ppm/°C
- Max. Rated Voltage:** Limited to the voltage required for rated-power operation at 100% duty cycle
- Resistive Elements:** Proprietary Thin Film
- Substrate Material:** Aluminum Nitride
- Leads:** 99.99% Pure Silver
- Cover:** Alumina
- Reliability:** MIL-PRF-55342
- RoHS Compliant**
- Non-Magnetic**



Values in Inches

Part Number	W ± 0.010	L ± 0.010	T ± 0.005	WT ± 0.005	LT ± 0.005	LA ± 0.005	Capacitance (pF)	Power Max (Watts)**	Resistance Values (Ohms)
CS12010TxxxxJ	0.100	0.200	0.040	0.090	0.030	0.095	0.95pF	10W	17.6 - 132.6 Ω
CS12010TxxxxJ01	0.100	0.200	0.040	0.090	0.030	0.095	0.95pF*	<10W*	60 - 450 Ω *
CS12010TxxxxJ02	0.100	0.200	0.040	0.090	0.030	0.095	0.95pF*	<10W*	102.4 - 768 Ω *
CS12010TxxxxJ03	0.100	0.120	0.040	0.090	0.030	0.095	0.95pF*	<10W*	1.9 - 14.4 Ω *
CS12525TxxxxJ	0.245	0.245	0.040	0.120	0.040	0.110	1.85pF	20W	17.7 - 133 Ω
CS13725TxxxxJ	0.250	0.375	0.040	0.120	0.050	0.195	3.0pF	30W	17.8 - 133.3 Ω
CS13737TxxxxJ	0.370	0.370	0.040	0.360	0.050	0.195	3.5pF	40W	16.9 - 126.6 Ω

Values in Inches

Part Number	W ± 0.010	L ± 0.010	T ± 0.005	WT ± 0.005	LT ± 0.005	Power Max (Watts)**	Resistance Values (Ohms)
CW11005TxxxxJ	0.05	0.1	0.025	0.045	0.03	<2W*	17 - 127.5 Ω
CW12010TxxxxJ	0.100	0.200	0.040	0.090	0.030	4W	17.6 - 132.4 Ω
CW12010TxxxxJ01	0.100	0.200	0.040	0.090	0.030	<4W*	60 - 450 Ω *
CW12525TxxxxJ	0.245	0.245	0.040	0.120	0.040	6W	17.7 - 133 Ω
CW13725TxxxxJ	0.250	0.375	0.040	0.120	0.050	8W	17.8 - 133.3 Ω
CW13725TxxxxJ01	0.250	0.375	0.040	0.120	0.050	<6W*	53.3 - 400 Ω *
CW13737TxxxxJ	0.370	0.370	0.040	0.360	0.050	10W	16.9 - 126.6 Ω

xxxx denotes Ohm value. (See How to Order below)

*Value is estimated and not validated

**Test Condition: Chip soldered to a via patch on a 30-mil-thick Rogers RO4350 board; Land surfaces at 100° C; maximum rated power applied.

Specification: The resistance of the film shall change no more than 0.5% during and after a 1000-hr. Burn-in per Mil-PRF-55342.

HOW TO ORDER

CS1

Case Style

CS1 = Surface Mount with Heat Sink
CW1 = Surface Mount

2010

Case Size

T

Termination

T = Ag over Ni
(See Note Below for Additional Options)

xxxx

Value

Resistance in Ω
Example:
0050 = 50 Ω
0100 = 100 Ω
25R5 = 25.5 Ω

J

Tolerance

Code	Tol.
F	$\pm 1\%$
G	$\pm 2\%$
J	$\pm 5\%$

TR

Packaging

TR = Tape & Reel (Standard)
BK = Plastic Carrier

Note: Special Order Terminations:

G = Au over Ni

P = Pd over Ni

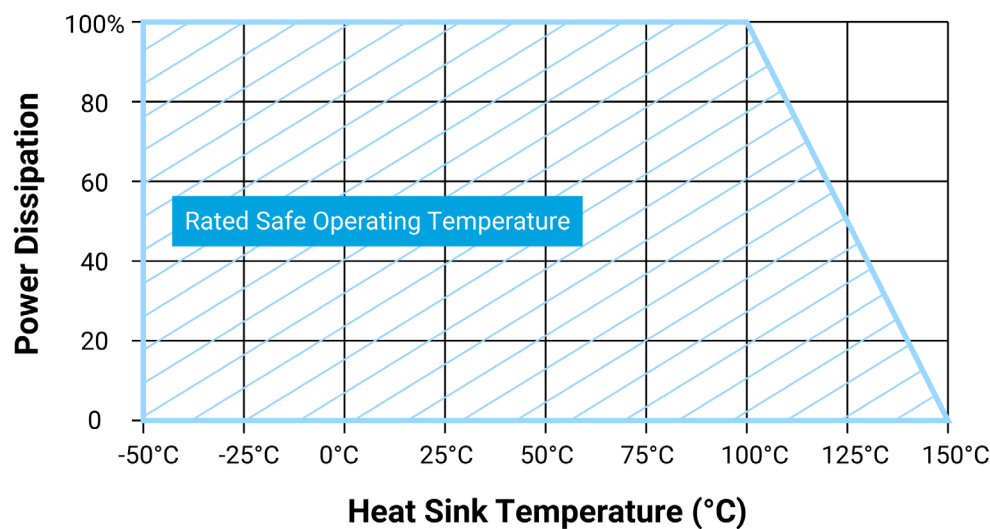
Pricing, lead times, and MOQ's vary

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Surface Mount Chip Resistors - CS/CW Series



POWER DERATING



TCR CURVE

