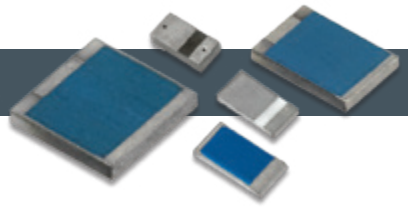
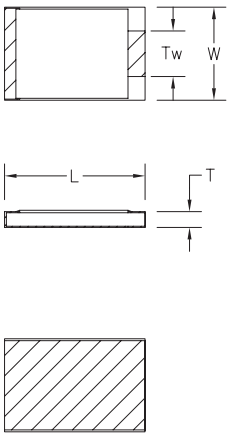
CT High Power Series

Chip Termination



Our high power chip terminations are available in both thick film and thin film resistor designs, offering you flexibility needed to match the correct part more closely to your specific application. Many designs have been optimized for RF performance and so will minimize the variability of capacitive reactance. Localized hot spots associated with trimming have been virtually eliminated. Reduced variation means your circuit performs so consistently that in most cases no external tuning is required.

CT

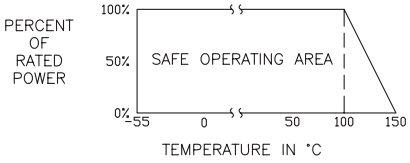


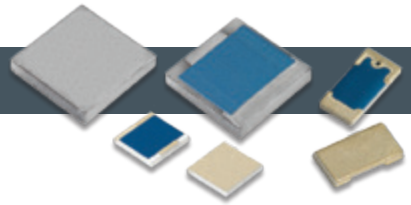
For Tw dimensions see data sheet on website.

Specifications

Impedance	50 Ohms
Frequency Range	DC to 26.5 GHz
Power Rating	100% @ 100°C
Derates to	0% @ 150 °C
Operating Temperature	-55 °C to 150 °C
Resistive Material	Thick Film
Terminal Material	Thick Film, Nickel Barrier, Solder, Silver (RoHS) or Gold

Power Rating and Derating





Part Numbering Code

C T — TYPE: CT = Chip Termination

3 7 — LENGTH: See Table

2 5 — WIDTH: See Table

_ — PERFORMANCE: (blank) = Standard; T = Telecom Tuned

A L N — SUBSTRATE MATERIAL: (blank) = Beryllium Oxide; ALN = Aluminum Nitride; A = Alumina

S — ENVIRONMENTAL COMPLIANCE: (blank) = Sn60Pb40; S = Pretinning; F = RoHS; G = Gold

Note: Not every combination of size is available.
Other ohms values available upon request. Please contact our Sales department.
"F" and "G" suffixes not available with pretinning ("S" suffix).

Power	Frequency	VSWR	Substrate	L		W		T		Part Series #
Watt	GHz	Max:1		mm [inches]						
1	26.50	1.35	BeO	1.02	[0.040]	0.51	[0.020]	0.28	[0.011]	CT0402
2	2.50	1.25	Alumina	2.54	[0.100]	1.27	[0.050]	.028	[0.011]	CT1005*A
5	2.00	1.25	Alumina	5.08	[0.200]	2.54	[0.100]	1.04	[0.041]	CT2010*A
10	4.00	1.25	BeO	1.27	[0.050]	1.27	[0.050]	0.28	[0.011]	CT0505
10	2.00	1.25	BeO	3.05	[0.120]	1.53	[0.060]	0.64	[0.025]	CT1206
15	4.00	1.25	BeO	2.54	[0.100]	1.27	[0.050]	0.28	[0.011]	CT1005
15	4.00	1.10	AlN	2.54	[0.100]	1.27	[0.050]	0.28	[0.011]	CT1005TALN
15	4.00	1.25	AlN	3.05	[0.120]	1.53	[0.060]	0.64	[0.025]	CT1206*ALN
20	4.00	1.25	BeO	5.08	[0.200]	2.54	[0.100]	1.04	[0.041]	CT2010
20	4.00	1.25	AlN	5.08	[0.200]	2.54	[0.100]	1.04	[0.041]	CT2010*ALN
20	2.00	1.25	Alumina	4.57	[0.180]	8.89	[0.350]	0.64	[0.025]	CT1835*A
30	4.00	1.25	AlN	6.35	[0.250]	6.35	[0.250]	1.04	[0.041]	CT2525*ALN
50	4.00	1.25	BeO	6.35	[0.250]	6.35	[0.250]	1.04	[0.041]	CT2525
80	4.00	1.25	AlN	5.82	[0.230]	8.89	[0.350]	1.04	[0.041]	CT2335*ALN
90	2.00	1.30	Alumina	5.82	[0.230]	8.89	[0.350]	0.38	[0.015]	CT2335*A
100	4.00	1.25	BeO	5.82	[0.230]	8.89	[0.350]	1.04	[0.041]	CT2335
100	2.50	1.30	AlN	6.35	[0.250]	6.35	[0.250]	1.04	[0.041]	CT2525TALN
120	3.00	1.10	AlN	5.82	[0.230]	8.89	[0.350]	1.04	[0.041]	CT2335TALN
150	2.00	1.25	AlN	9.40	[0.370]	6.35	[0.250]	1.04	[0.041]	CT3725*ALN
150	2.00	1.25	BeO	9.40	[0.370]	6.35	[0.250]	1.04	[0.041]	CT3725
150	2.00	1.25	BeO	9.40	[0.370]	6.35	[0.250]	1.04	[0.041]	CT3725F
200	2.00	1.20	AlN	9.53	[0.375]	9.52	[0.375]	1.30	[0.051]	CT3737TALN
250	2.00	1.35	BeO	9.53	[0.375]	9.52	[0.375]	1.30	[0.051]	CT3737

Power ratings are based on 100°C heat sink, except for CT2335A, which is 85°C

"*" is a place holder. See part number configurations to complete the part number