

Tab & Cover

Resistor

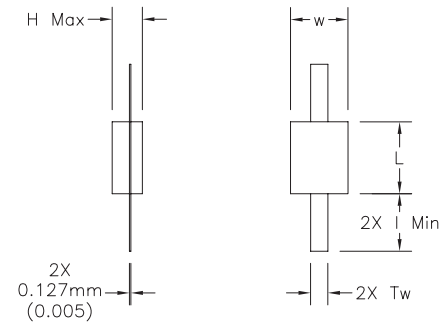


Tab & Cover resistors are ideal for mounting directly to a heat sink or onto a circuit board. The resistors are available with BeO, Aluminum Nitride (AlN) or Alumina substrates. These devices have standard resistance values of 50 & 100 ohms, however, are available in many non-standard values as well. The power rating ranges from 10 to 500 watts. Applications include Wilkinson divider/combiner that require low capacitance to ground. Packaging options are tray or tape & reel. All devices are available RoHS compliant.

Specifications

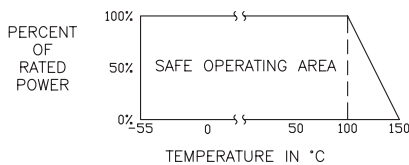
Standard Resistance	50 & 100 Ohms ±5%
Resistance Range	5 to 400 Ohms
Power	10 to 500 Watts
Power Rating	100% @ 100°C
Derates to	0% @ 150°C
Operating Temperature	-55°C to 150°C
Substrate	BeO, AlN or Alumina
Resistor	Thin Film
Tab Contact	Beryllium copper
Cover	Alumina
Ground Plane	Plated Thick Film

81-Series Tab & Cover

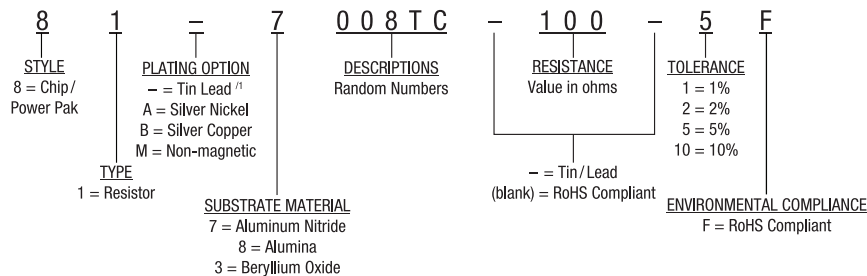


For "L min" and Tw dimensions see data sheet on website.

Power Rating and Derating



Part Numbering Code



¹⁾ Not RoHS Compliant



Tab & Cover

Product Information

Power	Resistance	Substrate	Capacitance	L		W		H		Part Series #
Watt	Range			mm [inches]						
10	10-250	AlN	0.57	5.08	[0.200]	2.54	[0.100]	2.16	[0.085]	81 7008TC /1
10	10-250	AlN	/5	5.08	[0.200]	2.54	[0.100]	2.16	[0.085]	81 7006TC /2
10	5-200	BeO	0.80	5.08	[0.200]	2.54	[0.100]	2.29	[0.090]	81 3001TC*
15	5-150	BeO	1.00	5.08	[0.200]	5.08	[0.200]	2.16	[0.085]	81 3002TC*
20	3-250	BeO	1.00	6.35	[0.250]	6.35	[0.250]	2.67	[0.105]	81 3012TC*
30	10-400	BeO	0.50	6.35	[0.250]	6.35	[0.250]	2.16	[0.085]	81 3034TC*
40	10-250	AlN	0.52	6.35	[0.250]	6.35	[0.250]	2.16	[0.085]	81 7108TC /3
40	10-250	AlN	0.25	5.84	[0.250]	8.89	{0.350}	2.16	[0.085]	81 7107TC /4
40	9-300	BeO	0.50	6.35	[0.250]	8.89	{0.350}	2.16	[0.085]	81 3035TC*
50	5-200	AlN	0.45	6.35	[0.250]	9.53	[0.375]	2.16	[0.085]	81 7109TC*
50	5-120	BeO	1.00	6.35	[0.250]	6.35	[0.250]	2.16	[0.085]	81 3003TC*
60	5-200	BeO	0.70	6.35	[0.250]	9.53	[0.375]	1.02	[0.040]	81 3033TC*
100	14-250	AlN	1.50	9.53	[0.375]	6.35	[0.250]	2.16	[0.085]	81 7043TC
150	7-250	AlN	1.38	9.53	[0.375]	6.35	[0.250]	2.16	[0.085]	81 7021TC*
150	12-400	BeO	0.50	9.53	[0.375]	6.35	[0.250]	2.67	[0.105]	81 3075TC*
150	7-250	BeO	1.33	9.53	[0.375]	6.35	[0.250]	2.16	[0.085]	81 3006TC*
200	10-250	AlN	1.40	9.53	[0.375]	9.53	[0.375]	2.16	[0.085]	81 7110TC*
250	10-350	BeO	1.00	9.53	[0.375]	9.53	[0.375]	2.67	[0.105]	81 3076TC*
250	5-250	BeO	1.64	9.53	[0.375]	9.53	[0.375]	2.16	[0.085]	81 3008TC*
400	5-200	BeO	3.25	12.70	[0.500]	12.70	[0.500]	2.16	[0.085]	81 3074TC*
500	10-400	BeO	1.50	12.70	[0.500]	12.70	[0.500]	2.16	[0.085]	81 3123TC*
500	10-400	BeO	1.50	12.70	[0.500]	12.70	[0.500]	1.02	[0.040]	81 3027TC*

/1 & /2 Slightly different specifications

/3 & /4 Slightly different body size and lead length

Peak power is typically 10 times the max power rating with a 1% duty cycle and 10 microsecond pulse width.

Capacitance is parallel and measured to 2.7 GHz.

“**” is a place holder. See part number configuration to complete the part number.

For a complete part number, include resistance and tolerance as described above in ordering information.

Please call the Sales department for specific applications.