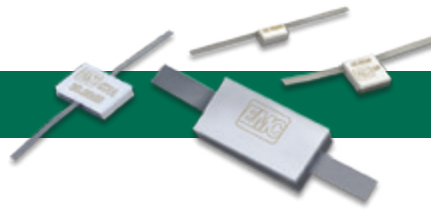
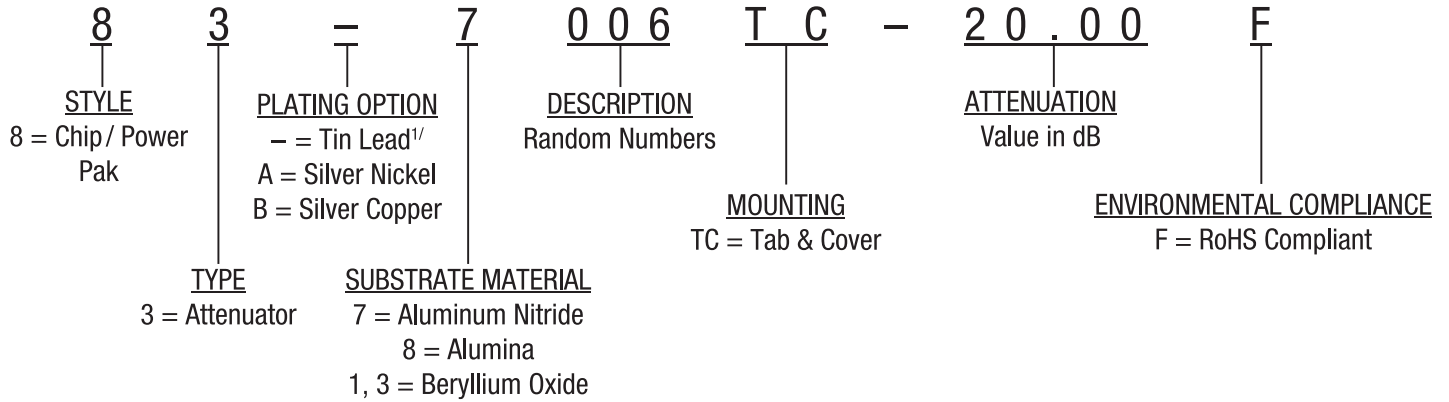


# 83 Series Tab & Cover

## Power Pack Attenuator



### Part Numbering Code



<sup>1/</sup>Not RoHS Compliant

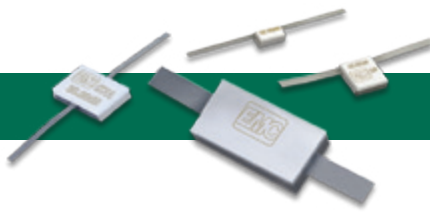
### Product Information Table

Power	Freq	VSWR	Substrate	L		W		H		I		Part Number*	Figure #
	GHz	Max		mm [inches]									
10	4.0	1.35	BeO	5.08	[0.200]	2.54	[0.100]	2.16	[0.085]	1.02	[0.040]	83 3005TC*	1
20	4.0	1.50	BeO	6.35	[0.250]	6.35	[0.250]	2.16	[0.085]	1.52	[0.060]	83 1001TC*	1
20	4.0	1.50	BeO	5.08	[0.200]	2.54	[0.100]	2.16	[0.085]	1.02	[0.040]	83 3001TC*	1
50	2.5	1.40	BeO	9.53	[0.375]	9.53	[0.375]	2.16	[0.085]	1.52	[0.060]	83 3021TC*	1
50	2.0	1.25	BeO	6.35	[0.250]	9.53	[0.375]	1.02	[0.040]	1.02	[0.040]	83 1996TC* /2	3
70	2.8	1.25	AlN	6.35	[0.250]	9.53	[0.375]	2.16	[0.085]	1.02	[0.040]	83 7009TC* /1	1
70	2.0	1.35	BeO	9.53	[0.375]	9.53	[0.375]	2.16	[0.085]	1.52	[0.060]	83 3997TC* /2	4
75	2.0	1.20	AlN	6.35	[0.250]	9.53	[0.375]	2.16	[0.085]	1.02	[0.040]	83 7011TC* /1 /2	2
100	2.3	1.20	AlN	5.84	[0.230]	8.89	[0.350]	2.16	[0.085]	1.02	[0.040]	83 7023TC*	5
100	2.3	1.15	AlN	5.84	[0.230]	8.89	[0.350]	2.16	[0.085]	1.02	[0.040]	83 7017TC*	6
100	3.0	1.30	AlN	6.35	[0.250]	9.53	[0.375]	2.16	[0.085]	1.02	[0.040]	83 7006TC*	5
100	0.8	1.25	BeO	12.70	[0.500]	12.70	[0.500]	2.16	[0.085]	1.52	[0.060]	83 1003TC*	1
150	1.0	1.50	BeO	9.53	[0.375]	9.53	[0.375]	2.16	[0.085]	1.52	[0.060]	83 1006TC*	1
150	2.2	1.40	AlN	6.35	[0.250]	9.53	[0.375]	2.16	[0.085]	1.02	[0.040]	83 7034TC*	6
150	3.0	1.30	AlN	7.62	[0.300]	11.43	[0.450]	1.91	[0.075]	1.02	[0.040]	83 7008TC* /1 /2	3
150	2.0	1.30	BeO	6.35	[0.250]	9.53	[0.375]	2.16	[0.085]	1.02	[0.040]	83 3016TC* /1 /2	5
150	1.0	1.50	BeO	9.53	[0.375]	9.53	[0.375]	2.16	[0.085]	1.52	[0.060]	83 3006TC* /1 /2	1
250	1.0	1.25	BeO	12.70	[0.500]	12.70	[0.500]	2.16	[0.085]	1.52	[0.060]	83 3994TC* /1 /2	4

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

/1 only available in 20dB

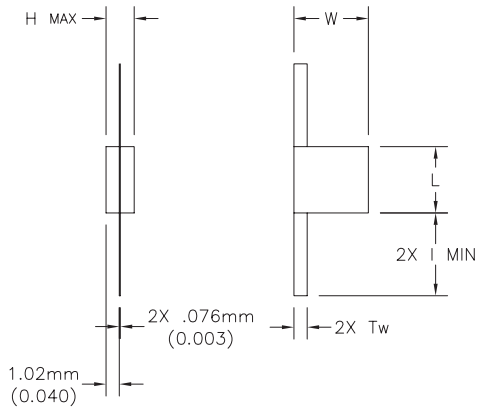
/2 only available in 30dB



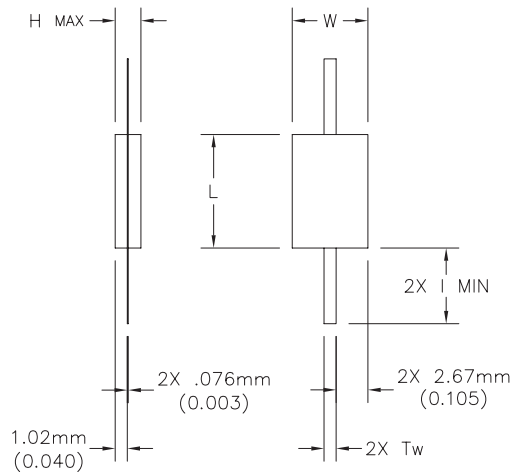
# 83 Series Tab & Cover

## Power Pack Attenuator

**Figure 1**



**Figure 2**



Tab & Cover devices are flangeless with protective ceramic covers and tab contacts, offering the highest performance available of any package style component. They are designed for direct solder attachment to a heat sink for excellent heat transfer. The tab and cover attenuators have attenuation range from 1 dB to 30 dB. Typical attenuation tolerance for values between 1-10 db is +/- 0.5 dB and 11-30 dB is +/- 1.0 dB (may vary for certain products please refer to drawing). All devices are made compliant to RoHS.

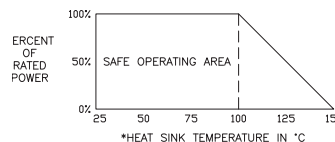
### Features

- Substrates - BeO, AlN, and Alumina
- Highest Performance
- Direct Attachment
- Attenuation Values from 0 to 30 dB
- Single Tab and Double Tab Configurations
- Many Finishes Available

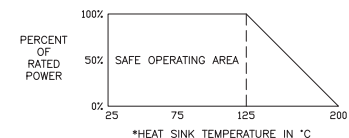
### Specifications

Impedance	50 Ohms
Frequency Range	DC to 4 GHz
Attenuation Accuracy	±0.5 dB
VSWR (Typical)	1.30 @ 1 GHz
Power Rating	10 - 250 Watts
Operating Temperature	-55°C to 150°C
Substrate	Alumina, BeO or AlN
Resistive Material	Thin Film
Tab Contact	Different Finishes Available

### Power Rating and Derating



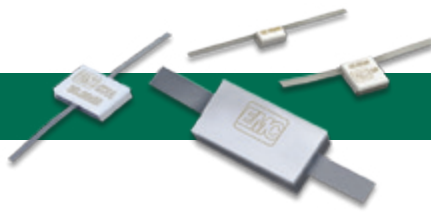
### Alternative Derating Available Upon Request



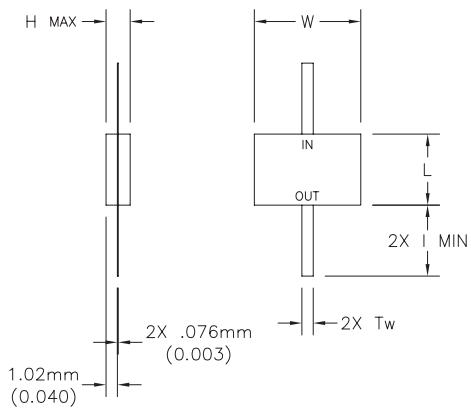
\*The heat sink is defined as the surface that the Component is attached to, ie. chassis or printed circuit board.

# 83 Series Tab & Cover

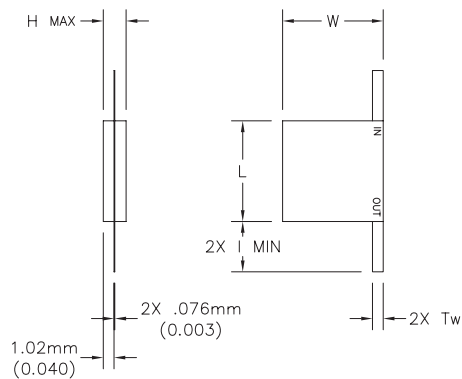
## Mechanical Outlines



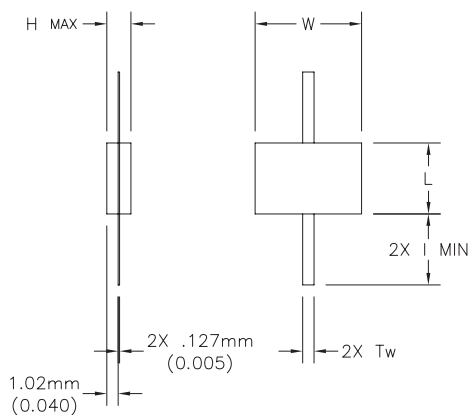
**Figure 3**



**Figure 4**



**Figure 5**



**Figure 6**

