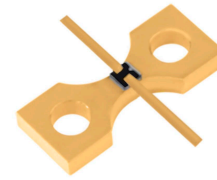




DC - 27.0 GHz.

Model: CVDA-0505-F-X

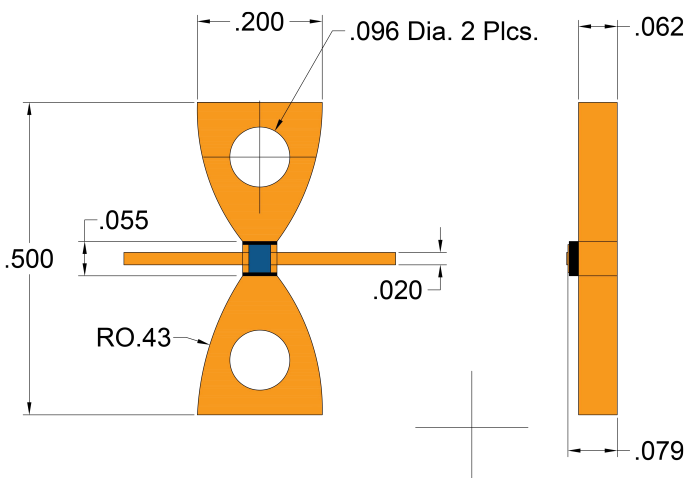
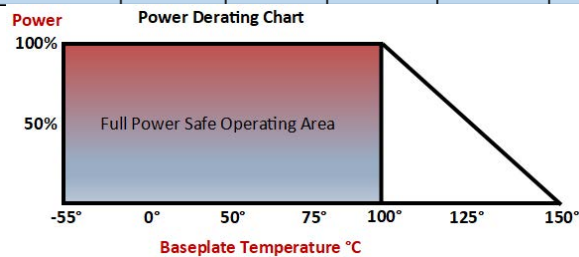


Flange & Tab Configuration

DIA-FILM Attenuators are manufactured using CVD Diamond substrate material which has the highest thermal conductivity of any material known to man for use with electronic components. These attenuator chips measure 0.055" x 0.055" x 0.015" having the capability of dissipating 20 watts of CW power from -65° to +150°C. With a low dielectric constant CVD Diamond is perfect for very high frequency component design. The attenuator structure is all thin-Film utilizing the latest thin-Film processing and pure metals. The resistor material is self-passivating Tantalum/Nitride combined with Titanium/Tungsten, Palladium, Nickel and Gold films which produces these high reliability components. These attenuators are supplied with Copper, Gold Plated flanges and tabs and are attached with Gold/Tin brazing material at 280°C. Attenuators are designed to be screwed down to a flat sufficient heat sink for maximum heat transfer. They can be delivered in Gel-Pak, Vacuum-Formed packaging trays or Anti-Static hinged boxes with foam. Please contact the factory for any special requirements or packaging. Anti-Static hinged boxes packaging is standard. All devices are RoHS compliant and are designed to meet MIL-PRF-55342.

CVD DIAMOND FLANGED ATTENUATOR SELECTION CHART						
Part Number	Attenuation (dB)	DC - 10 GHz	10 - 14 GHz	14 - 18 GHz	18 - 27 GHz	VSWR DC - 27 GHz
CVDA-0505-F-1	1.0	± 0.25	± 0.30	± 0.50	± 0.50	1.25 - 1.50 Max
CVDA-0505-F-2	2.0	± 0.25	± 0.30	± 0.50	± 0.50	1.25 - 1.50 Max
CVDA-0505-F-3	3.0	± 0.25	± 0.30	± 0.50	± 0.50	1.25 - 1.50 Max
CVDA-0505-F-4	4.0	± 0.25	± 0.30	± 0.50	± 0.75	1.25 - 1.50 Max
CVDA-0505-F-5	5.0	± 0.25	± 0.30	± 0.50	± 0.75	1.25 - 1.50 Max
CVDA-0505-F-6	6.0	± 0.25	± 0.30	± 0.50	± 0.75	1.25 - 1.50 Max
CVDA-0505-F-7	7.0	± 0.25	± 0.30	± 0.50	± 1.00	1.25 - 1.50 Max
CVDA-0505-F-8	8.0	± 0.25	± 0.30	± 0.50	± 1.00	1.25 - 1.50 Max
CVDA-0505-F-9	9.0	± 0.25	± 0.30	± 0.50	± 1.00	1.25 - 1.50 Max
CVDA-0505-F-10	10.0	± 0.25	± 0.30	± 0.50	± 1.00	1.25 - 1.50 Max
CVDA-0505-F-15	15.0	± 0.25	± 0.50	± 0.75	± 1.00	1.25 - 1.50 Max
CVDA-0505-F-20	20.0	± 0.25	± 0.50	± 0.80	± 1.00	1.25 - 1.50 Max
CVDA-0505-F-30	30.0	± 0.25	± 0.50	± 1.00	± 1.50	1.25 - 1.50 Max

Specifications	
Attenuation Values	1 - 10 dB, 10, 15 & 30 dB
Power	20 Watts CW
Frequency Range	DC - 27.0 GHz.
Resistive Material	Tantalum/Nitride
Terminal Material	Palladium/Gold
Operating Temperature	-65° C to +150° C
Nominal Impedance	50 Ω



Part Number Example:

CVD A - 0505 - F - XX

Diamond Attenuator Chip Size Flange dB Value
01 - 10
15, 20, 30