

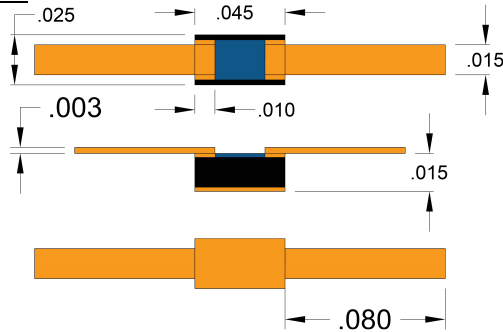


DC - 30.0 GHz.Model: Model: CVDR-XXXX-T-XXX Chip & Tab Tab Configurations 0402, 0505, 0603, 1010, 2010

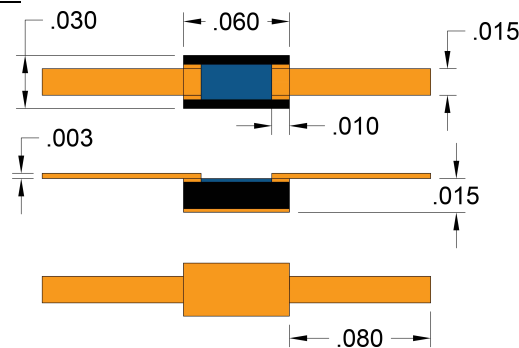


DIA-FILM Chip resistors are manufactured using CVD Diamond substrate material which has the highest thermal conductivity of any material known to man for use with electronic components. These resistor chips are offered in various standard sizes having the capability of dissipating 20 - 175 watts of CW power and operate from -65°C to +150°C. With a low dielectric constant CVD Diamond is an excellent choice for high frequency design. The resistor 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 resistors are supplied with Copper, Gold Plated tabs and are attached with Gold/Tin brazing material at 280°C. Soft-Solder attachment is recommended using SN-96 Eutectic Solder. Silver epoxy can be used but not recommended for power dissipation over 1 watt. They can be delivered in Gel-Pak, Waffle packaging or Anti-Static hinged boxes with foam. Please contact the factory for any special requirements or packaging. Anti-Static boxes standard packaging. All chips are RoHS compliant and are designed to meet MIL-PRF-55342.

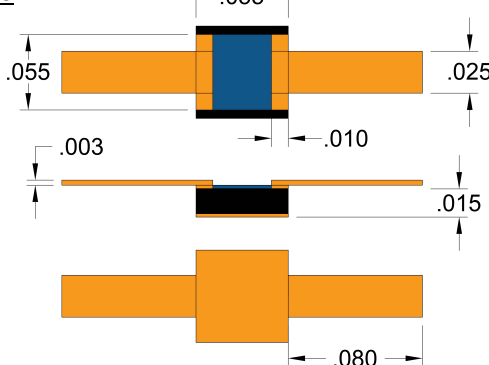
0402



0603



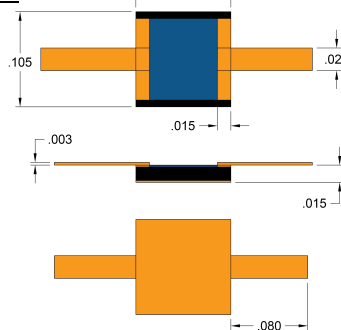
0505



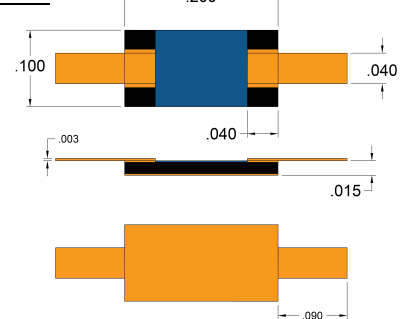
CVD DIAMOND RESISTOR CHIP & TAB SELECTION CHART

Part Number	Resistance (Ω) ±5%	Frequency Range	Power (Watts)	Capacitance (pF) typ.
CVDR-0402-T-50	50.0	DC - 30 GHz	20	0.09
CVDR-0404-T-100	100.0	DC - 30 GHz	20	0.09
CVDR-0505-T-50	50.0	DC - 18 GHz	50	0.10
CVDR-0505-T-100	100.0	DC - 18 GHz	50	0.10
CVDR-0603-T-50	50.0	DC - 18 GHz	50	0.19
CVDR-0603-T-100	100.0	DC - 18 GHz	50	0.19
CVDR-1010-T-50	50.0	DC - 18 GHz	125	0.30
CVDR-1010-T-100	100.0	DC - 18 GHz	125	0.30
CVDR-2010-T-50	50.0	DC - 16 GHz	175	0.50
CVDR-2010-T-100	100.0	DC - 16 GHz	175	0.50

1010



2010



Part Number Example:

CVD R - XXXX - T - XXX

Diamond	Resistor	Chip Size	T=Chip & Tab	Ohms
		0402		50
		0505		100
		0603		
		1010		
		2010		