



Surface Mount Attenuator 7 Watts



Features:

- RoHS compliant
- Lowest Cost
- True Surface Mount
- Alumina Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

Description

The D10AAXXZ4 is high performance Alumina (Al2O3) surface mount attenuator intended as a lower cost alternative to Aluminum Nitride (AlN) and Beryllium Oxide (BeO). The attenuator is well suited to all cellular frequency bands such as; AMPS, GSM, DCS, PCS, PHS and UMTS. The high power handling makes the part ideal for inter-stage matching, directional couplers, and for use in isolators.

General Specifications

Resistive Element Thick film

Substrate Alumina Ceramic

Terminal Finish Matte Tin over Sulfamate Nickel

Operating Temperature -55 to +125°C (see chart)

Tolerance is ± 0.010 ", unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. All dimensions in inches.

Electrical Specifications

Attenuation Value: 1 – 6, 9, 10, 20 & 30dB

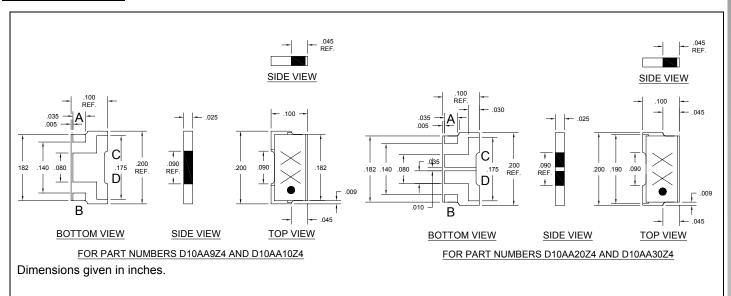
Power: 7 Watts

Frequency Range: DC – 3.0 GHz

V.S.W.R.: <1.25:1

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**

Outline Drawing



Anaren
What'll we think of next?



Available on Tape and Reel For Pick and Place Manufacturing.

USA/Canada: (315) 432-8909 Toll Free: (800) 544-2414 Europe: +44 2392-232392

Rev. 6/24/05





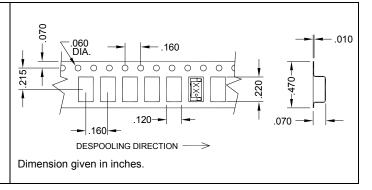
Specifications:

ATTENUATION(dB)	TOL. (±dB)	POWER (WATTS)	VSWR	FREQ (GHZ)
1	0.30	7	1.25:1	3.0
2	0.30	7	1.25:1	3.0
3	0.30	7	1.25:1	3.0
4	0.30	7	1.25:1	3.0
5	0.30	7	1.25:1	3.0
6	0.30	7	1.25:1	3.0
9	0.25	7	1.25:1	3.0
10	0.25	7	1.25:1	3.0
20	0.50	7	1.25:1	3.0
30	1.50	7	1.25:1	3.0
	1 2 3 4 5 6 9 10 20	1 0.30 2 0.30 3 0.30 4 0.30 5 0.30 6 0.30 9 0.25 10 0.25 20 0.50	1 0.30 7 2 0.30 7 3 0.30 7 4 0.30 7 5 0.30 7 6 0.30 7 9 0.25 7 10 0.25 7 20 0.50 7	1 0.30 7 1.25:1 2 0.30 7 1.25:1 3 0.30 7 1.25:1 4 0.30 7 1.25:1 5 0.30 7 1.25:1 6 0.30 7 1.25:1 9 0.25 7 1.25:1 10 0.25 7 1.25:1 20 0.50 7 1.25:1

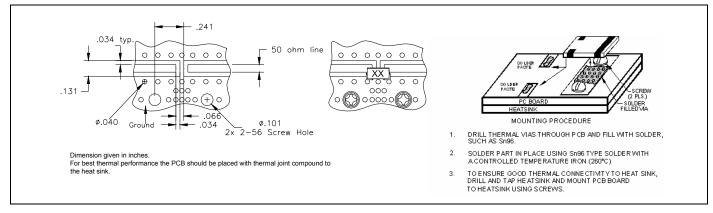
Power De-rating:

100 75 9 50 25 50 75 0 25 50 75 100 125 CASE TEMPERATURE - °C

Tape & Reel:



Mounting Footprint and Procedure:



USA/Canada: Toll Free: Europe: (315) 432-8909 (800) 544-2414 +44 2392-232392 Available on Tape and Reel For Pick and Place Manufacturing.





Material Declaration	D10AAXXZ4	Matte Tin Finish		
Material	Weight			
	(lbs)	(g)	(PPM)	CAS Number
Alumina	5.889E-05	2.671E-02	7.496E+05	1344-28-1
Diethylene Glycol Ethyl Ether Acetate	2.212E-07	1.004E-04	2.818E+03	1121-52
Dipropylene Glycol Monomethyl Ether	2.976E-7	1.350E-04	3.789E+03	3459-09-48
Epoxy resin and polymers	1.323E-06	6.000E-04	1.684E+4	1002
Matte Tin	1.381E-06	6.262E-04	1.758E+04	7440-31-5
Nickel	8.416E-07	3.817E-04	1.071E+04	7440-02-0
Polymer	6.507E-07	2.952E-04	8.285E+03	
Propylene Glycol Monomethyl Ethere Acetate	1.775E-07	8.050E-05	2.259E+03	1086-56
Ruthenium	1.618E-06	7.341E-04	2.060E+04	12036-10-1
Silicon Oxide	7.490E-07	3.397E-04	9.534E+03	10097-28-6
Silver Alloy	1.062E-05	4.816E-03	1.352E+05	7440-22-4

The values presented above are estimates at the current revision, and it is derived from vendor supplied data. While Anaren strives for accurate reporting, due to product and process variations at both Anaren and our suppliers, the quoted values are our best estimates only, and not measured absolute values. Product specifications are subject to change without notice.

7.855E-05

7.932E-05



Total Weight Calculated

Total Weight Measured



Available on Tape and Reel For Pick and Place Manufacturing.

3.563E-02

3.598E-02

USA/Canada: Toll Free: Europe:

(315) 432-8909 (800) 544-2414 +44 2392-232392