



Surface Mount Attenuator 7 Watts

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.

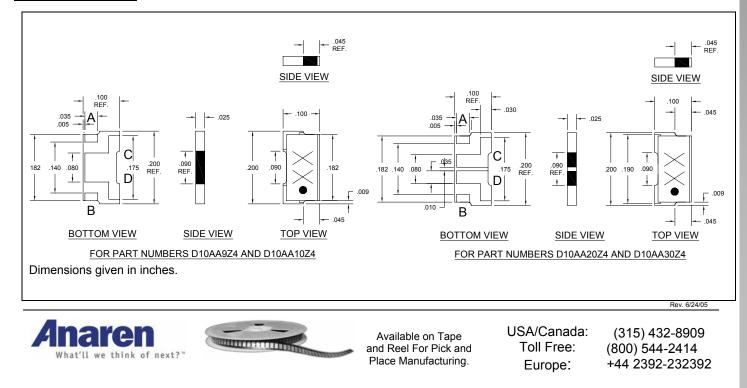
General Specifications

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.		

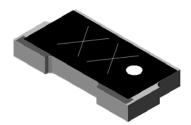
Electrical Specifications

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.**







Features:

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

Outline Drawing



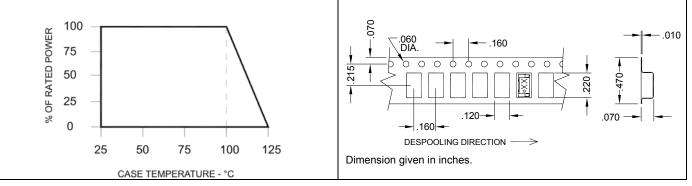


Specifications:

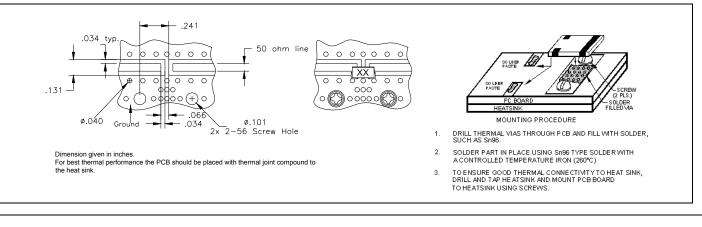
PART NUMBER	ATTENUATION(dB)	TOL. (±dB)	POWER (WATTS)	VSWR	FREQ (GHZ)
D10AA1Z4	1	0.30	7	1.25:1	3.0
D10AA2Z4	2	0.30	7	1.25:1	3.0
D10AA3Z4	3	0.30	7	1.25:1	3.0
D10AA4Z4	4	0.30	7	1.25:1	3.0
D10AA5Z4	5	0.30	7	1.25:1	3.0
D10AA6Z4	6	0.30	7	1.25:1	3.0
D10AA9Z4	9	0.25	7	1.25:1	3.0
D10AA10Z4	10	0.25	7	1.25:1	3.0
D10AA20Z4	20	0.50	7	1.25:1	3.0
D10AA30Z4	30	1.50	7	1.25:1	3.0

Power De-rating:

Tape & Reel:



Mounting Footprint and Procedure:



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

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Material Declaration

Matte Tin Finish

Material	Wai	ight		
material	(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

D10AAXXZ4

Total Weight Calculated	7.855E-05	3.563E-02
Total Weight Measured	7.932E-05	3.598E-02

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.





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