



### Surface Mount Attenuator 10 Watts

#### Description

The RFP-250250N4AAXX is high performance Aluminum Nitride (AlN) surface mount attenuator intended as a lower cost alternative to 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

|                              |                                 |
|------------------------------|---------------------------------|
| <b>Resistive Element</b>     | Thick film                      |
| <b>Substrate</b>             | Aluminum Nitride Ceramic        |
| <b>Terminal Finish</b>       | Matte Tin over Sulfamate Nickel |
| <b>Operating Temperature</b> | -55 to +125°C (see chart)       |

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

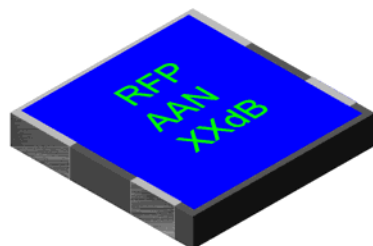
#### Electrical Specifications

|                           |                |
|---------------------------|----------------|
| <b>Attenuation Value:</b> | 1 – 6, 9, 10dB |
| <b>Power:</b>             | 10 Watts       |
| <b>Frequency Range:</b>   | DC – 2.0 GHz   |
| <b>V.S.W.R.:</b>          | <1.25:1        |

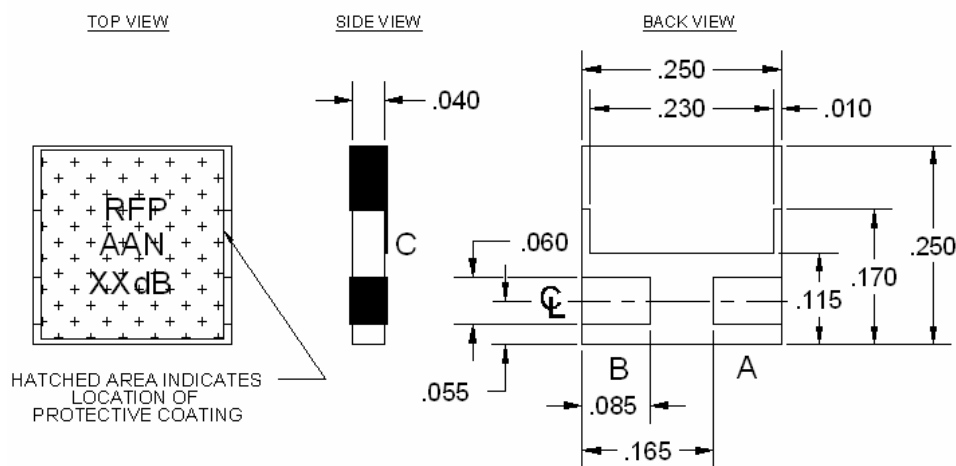
Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**

#### Features:

- Low Cost
- Surface Mount
- Aluminum Nitride Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested



#### Outline Drawing



Dimensions given in inches.

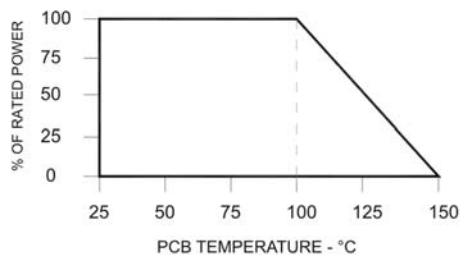
Rev. 3/3/06



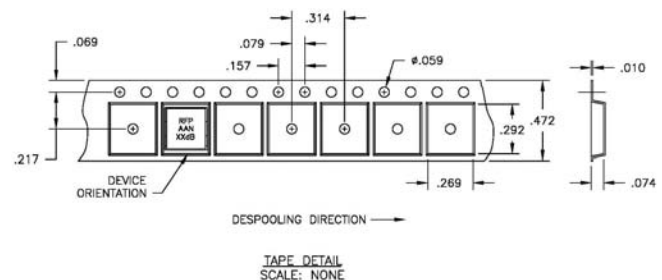
### Specifications:

| PART NUMBER      | ATTENUATION(dB) | TOL. ( $\pm$ dB) | POWER (WATTS) | VSWR   | FREQ (GHZ) |
|------------------|-----------------|------------------|---------------|--------|------------|
| RFP-250250N4AA1  | 1               | 0.2              | 10            | 1.25:1 | 2.0        |
| RFP-250250N4AA2  | 2               | 0.3              | 10            | 1.25:1 | 2.0        |
| RFP-250250N4AA3  | 3               | 0.3              | 10            | 1.25:1 | 2.0        |
| RFP-250250N4AA4  | 4               | 0.3              | 10            | 1.25:1 | 2.0        |
| RFP-250250N4AA5  | 5               | 0.3              | 10            | 1.25:1 | 2.0        |
| RFP-250250N4AA6  | 6               | 0.4              | 10            | 1.25:1 | 2.0        |
| RFP-250250N4AA9  | 9               | 0.6              | 10            | 1.25:1 | 2.0        |
| RFP-250250N4AA10 | 10              | 0.7              | 10            | 1.25:1 | 2.0        |

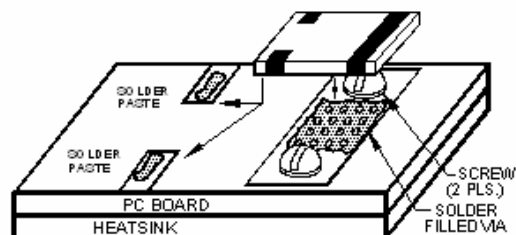
### Power De-rating:



### Tape & Reel:



### Mounting Footprint and Procedure:



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

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Reel For Pick and Place  
Manufacturing.



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