



**5.0 Antenna Specifications:**

- 5.1 Resonant Frequency: 915 MHz
- 5.2 Antenna Gain: -001 part, 0 dB  
-002 part, 2.5 dBic ±1 dB (in horizontal plane)
- 5.3 Axial Ratio: -001 part, less than or equal to 10dB (@915 MHz ±2 MHz)  
-002 part, less than 4dB (@915 MHz)  
-002 part, less than 13dB (@915 MHz ±10 MHz)
- 5.4 Front to Back Ratio: Not specified
- 5.5 3dB Beam Width, Horizontal: -001 part, not specified  
-002 part, 120° typical
- 5.6 3dB Beam Width, Vertical: -001 part, not specified  
-002 part, 120° typical
- 5.7 Return Loss @Resonant Frequency: -001 part, less than or equal to -15dB  
-002, not specified
- 5.8 Resonance Bandwidth: -001 part, 915 MHz ±5 MHz  
-002 part, 915 MHz ±10 MHz
- 5.9 Return Loss Across Resonance: Less than or equal to -10dB
- 5.10 Power Rating: -001 part, not specified  
-002 part, 10 Watts
- 5.11 Polarization: Right hand circular
- 5.12 Nominal Impedance: 50 Ohms

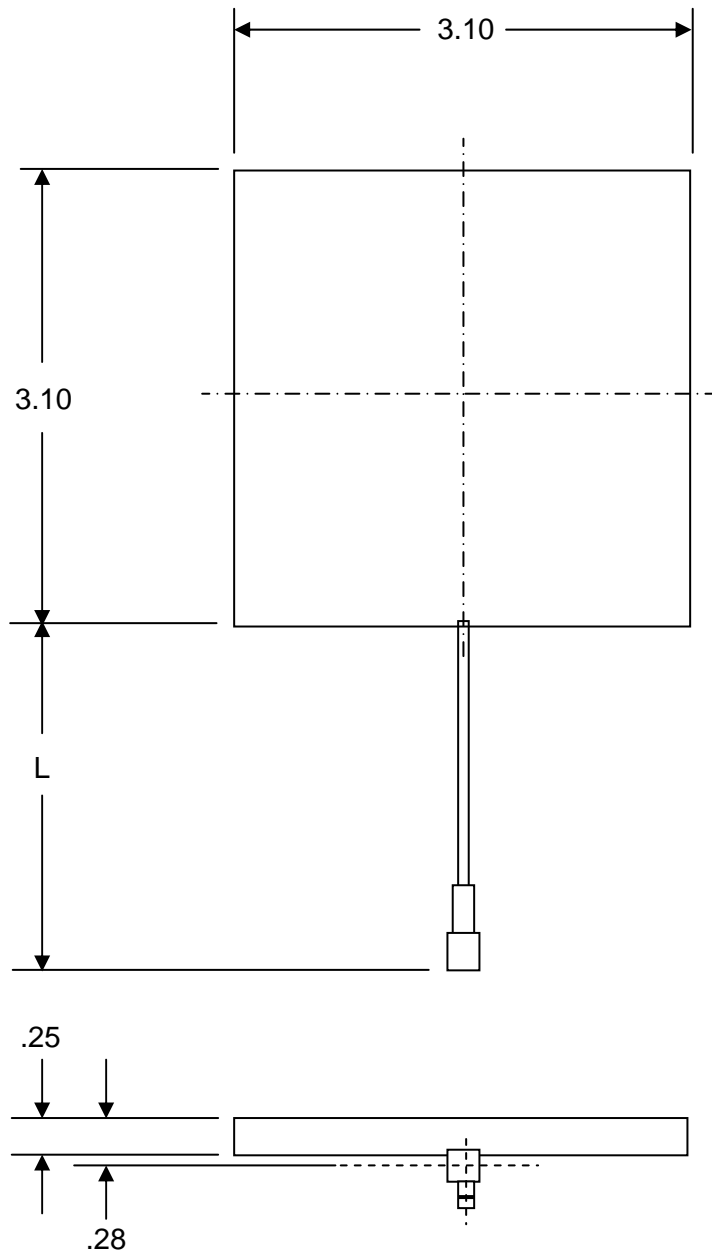
**6.0 Mechanical Ratings:**

- 6.1 Substrate Material: -001 part, ceramic  
-002 part, alumina
- 6.2 Pendant Cable Type: See parts tabulation
- 6.3 Coaxial Connector: See parts tabulation
- 6.4 Ambient Operating Temperature: -001 part, -40°C to +80°C  
-002 part, -40°C to +85°C
- 6.5 Storage Temperature: Not specified
- 6.6 Weight: -001 part, 4 oz. (113 grams, with 2.5 inches coax)  
-002 part, 5.3 oz. (150 grams, with 2.5 inches coax & MMCX plug)

**7.0 Parts Tabulation:**

<u>Part No.</u>	<u>Cable Type</u>	<u>Cable Length, L</u>	<u>Connector</u>
-001	RG-178B/U	2.50 ±.20 inches	Right angle MMCX plug
-002	RG-178B/U	2.50 ±.20 inches	Right angle MMCX plug

8.0 Outline Drawing: RFID antenna, -001 & -002parts



- Notes:
- 1. Dimensions are in inches
  - 2. Tolerances are +/- .03 inches, unless otherwise shown
  - 3. Length of coax assy and connector type are specified in the parts tabulation (Para. 7.0)