

(Specs Dept. to add proper heading upon releasing this Spec).

Title: Antenna, Coaxial Whip

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- 5.5.3 Antennas are to be individually enclosed in plastic bags and packaged 100. Each bag and all associated hardware shall be packed separately from the antenna in plastic bag and stapled together.

6. COMPONENT REQUIREMENTS

6.1 GENERAL REQUIREMENTS

6.1.3 Operating Temperature Range

These parts shall be operational from -40°C to +85°C without loss of function.

6.1.4 Storage Temperature

These parts shall be capable of withstanding continuous exposure of -40°C to +85°C without loss of function.

6.1.5 Reference Conditions

Electrical parameters shall be corrected to applicable reference conditions: temperature of +25°C, relative humidity of 50%, and barometric pressure of 28 to 30 inches of mercury.

6.2 ELECTRICAL REQUIREMENTS (@ $T_a = 25^\circ\text{C} \pm 2^\circ\text{C}$ unless specified)

6.2.1 Transmit Frequency Range: 824 to 849 MHz

6.2.2 Receive Frequency Range: 869 to 894 MHz

[X] 6.2.3 Return Loss: 6.75 dB minimum

nominal

6.2.4 Nominal Impedance: 50 ohms

6.2.5 Continuous Power Rating: 2 Watts

6.2.6 Polarization: Vertical

6.2.7 Gain: -2 dBd nominal

6.3 RETURN LOSS TESTING (@ $T_a = 25^\circ\text{C} \pm 2^\circ\text{C}$ unless specified)

6.3.1 Required Test Equipment:

1. Suitable ground plane with proper mounting holes for attaching the antenna assembly.
2. A 50 ohm, short, and open terminations.
3. Appropriate cabling, connectors, and adaptors.
4. Computer Controller.