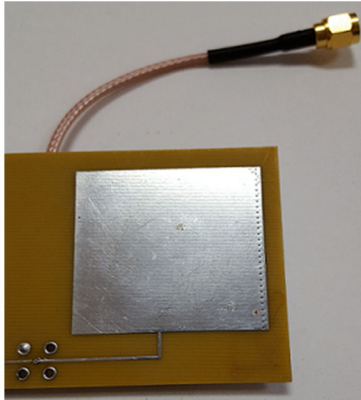
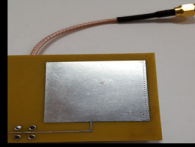




“enLIGHTening RFID”



MSPA-1 TM

SINGLE PATCH Antenna

The SPA 001 is a high performance shorted patch antenna intended for applications in the 902-928 MHz Spread Spectrum band. Fully metalized ground plane on the backside permits attachment to a variety of surfaces without significant effect on the resonant frequency or the directional pattern. Each assembly is 100% tested for conformance to the MIN/MAX specification limits at 25 °C.

FEATURES

- ◆ Low VSWR, 1.2:1 Typical
- ◆ Compact, rugged packaging
- ◆ Connectorized for ease of installation

ELECTRICAL SPECIFICATIONS, T_A = 25 °C

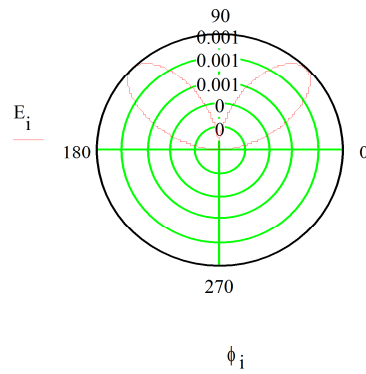
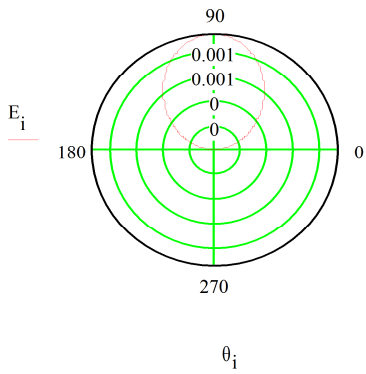
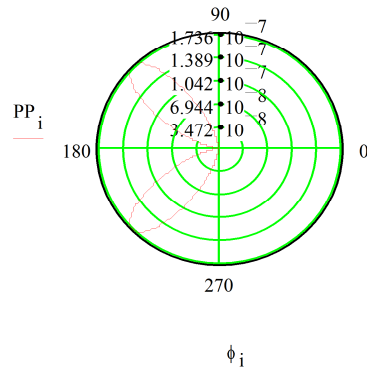
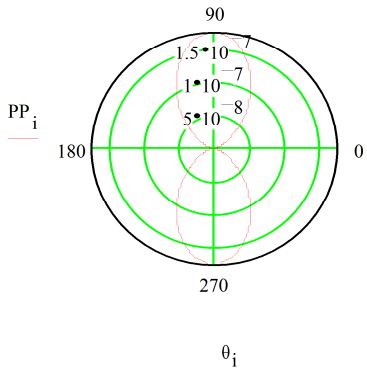
Parameter	Test Condition	Units	Min.	Typical	Max.
Center Frequency Fo (see Note1)	Resonance indicated by minimum VSWR	MHz	902	915	928
Center frequency accuracy	Reference specified Fo	MHz	-2	0	+2
VSWR	At Fo, reference 50 ohms		1.0:1	1.2:1	1.4:1
Bandwidth	% of Fo over which VSWR ≤2.0:1		1.5	1.7	

Note 1: Center Frequency to be specified at time of order. See "Ordering Information"

ABSOLUTE MAXIMUM RATINGS

Parameter	Absolute Maximum (1)
RF Power	10 Watts
DC Current	± 500 mA
Temperature	-60 °C to +100 °C.
Humidity	95%, Non - Condensing

- (1) Operation of this device beyond any of these Absolute Maximum limits may cause permanent damage.
- (2) The antenna is shunt fed. Connection to active antenna circuits with DC voltages must be through a DC block.



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