TECOM
smiths microwave

Airborne Broadband Omni-Directional Antenna Type 201564-3

TECOM introduces a new airborne qualified broadband omni-directional antenna.

The 201564-3 antenna covers the frequency range of 0.5-18 GHz. It is one of the smallest omni-directional antennas on the marketplace today. It is designed to be installed on aircraft and meets the exacting environmental specifications required for such usage. A separate radome is not required. The antenna is slant linear polarized so that it can receive Horizontal, Vertical, Right Hand Circular and Left Hand Circular polarized signals.

OMNI-DIRECTIONAL ANTENNAS

Electrical Performance Specifications	
Frequency Range:	0.5-18 GHz
Polarization:	Slant linear
Antenna Gain*:	
0.5 GHz:	-6 dBi average
1.0 GHz:	-5 dBi average
2 GHz:	-2 dBi average
4 GHz:	-2 dBi average
8 GHz:	1 dBi average
18 GHz:	0 dBi average
VSWR:	0.5-1 GHz: < 6.5:1 1-18 GHz: < 3.0:1
Elevation Beamwidth:	30 degrees typical
Omni Deviation:	+/3 dB max
RF Connector:	Type N female
Power Handling:	5 Watts CW
Physical Size:	10.25" Dia - 9.1" Height
Weight:	8 lbs. approx

*Gain values are measured at the output connector to mctched polarization.
Average gain values are the average values at a single frequency over all azimuth angles.

Environmental Specifications	
Operating Temperature:	-54 deg C to + 85 deg C
Humidity:	100% condensing per MIL-STD-810F, Fig 507.4-1
Altitude:	40,000 feet
Airspeed:	500 mph
Vibration:	MIL-E-5400T, Fig 2, Curve IVa
Shock:	18 shocks, 15G amplitude, 3 axis, 11 msec per axis Per MIL-E-5400T Para 3.2.24.6.1

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