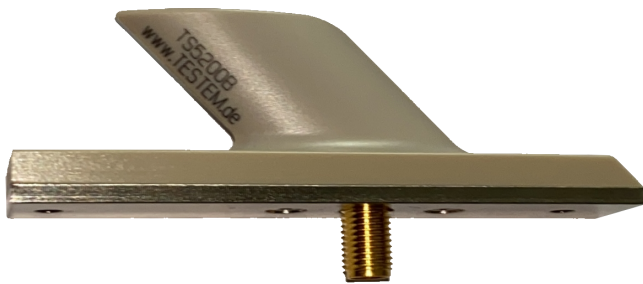


AIRBORNE BLADE ANTENNA C-Band

Type TS5200



ELECTRICAL SPECIFICATIONS

- Frequency Range 5.0 to 6.0 GHz
Adjusted to customer request
- Polarization linear
- Gain nom. 0 dBi
- Coverage Omni directional
- Max. CW 10W @ sea level,
5W @ 10 km
- Impedance 50 Ohms
- VSWR better than 1.5:1 @ requested
center frequency

The rugged airborne antenna model S5200 is specially designed for applications onboard from aircrafts, drones and missiles. The antenna works alone or in multi antenna arrays with matching networks.

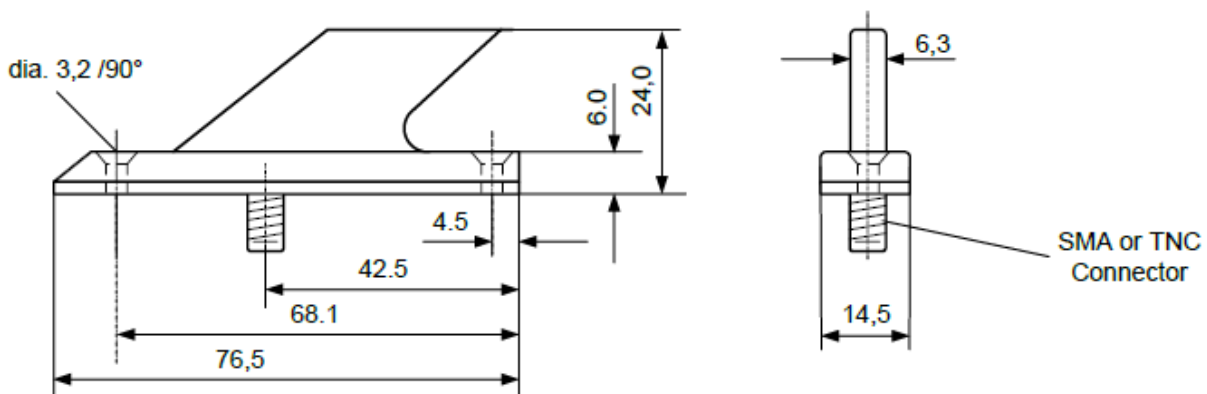
MECHANICAL SPECIFICATIONS

- Connector Type SMA female, optional TNC-female on request
- Antenna Height 24 mm (1 inch)
- Materials/Colors radome – high temperature milled plastic (beige TecaPeek)
Mounting plate – Aluminum nickel plated
- Weight 10,5 g (0,37 oz.) SMA

ENVIRONMENTAL SPECIFICATIONS

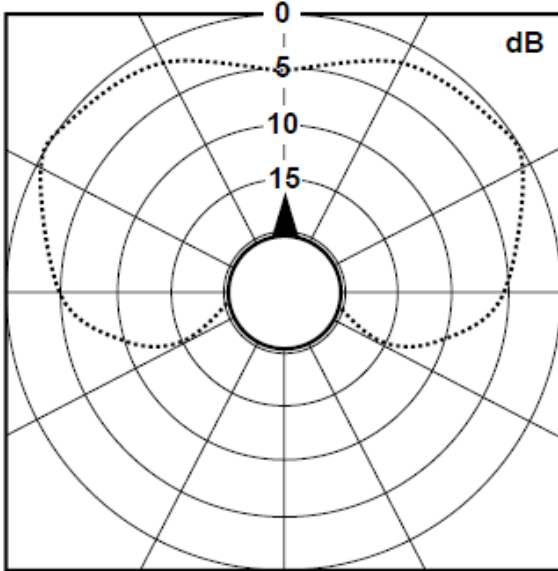
- Temperature Range -100°C to +250°C (-150°F to +482°F),
continuously operating
max. 450 °C (842 °F) for 20 s
- Maximum Speed max. 2.5 Mach at 15 km (50 000 ft.) altitude,
max. 5.0 Mach for 10 min.

OUTLINE DIMENSIONS

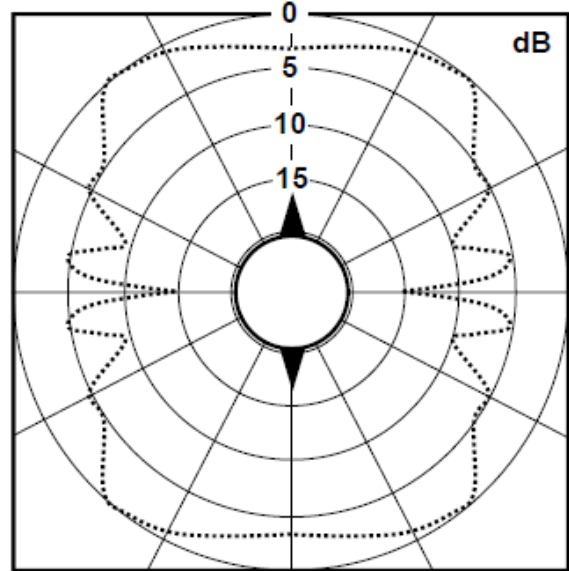


TYPICAL ROLL PLANE PATTERNS for BLADE ANTENNA TS5200

1 Antenna at 5200 MHz /60 mm dia.

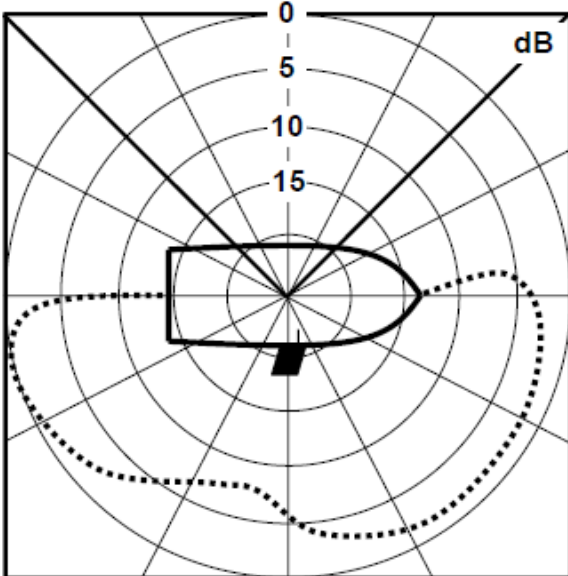


2 Antennas at 5200 MHz/60 mm dia.

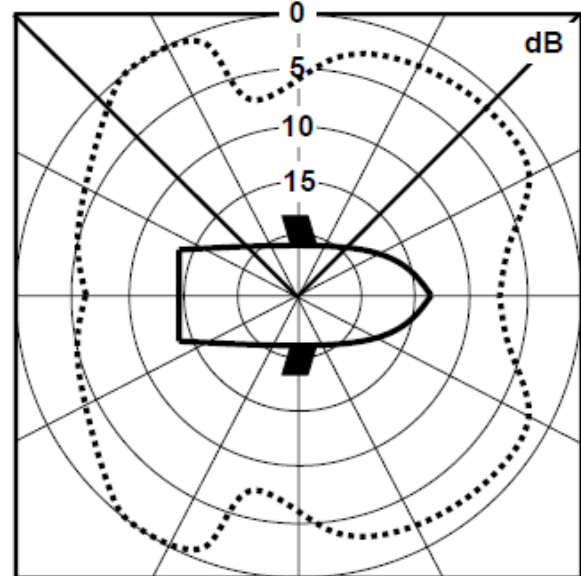


TYPICAL YAW PLANE PATTERNS for BLADE ANTENNA TS5200

1 Antenna at 5200 MHz/60 mm dia.



2 Antennas at 5200 MHz/60 mm dia.



Tested according to MIL-STD-461F, method RE102, method RE103:

Salt fog: M509.1, Pl. 48 HRS 5% Salt Solution, Humidity M507.1 RH=100%, T=114°F max

Low Temp. M514.2, Freq 20-2000 HZ

A. GRMS=19.2 12Min/Axis, B. GRMS=8.25 1hr/Axis, C. GRMS=6.9 30SEC/Axis

Shock M516.2, PIII, PV, A. 80G, 11msec, Terminal Saw Tooth, B. 200G, 11sec, Terminal Saw Tooth

3 Axis, 2 Shocks/Direction, ACC M513.2 PI ±23G, 3 Axis, 1Min/Axis