

Airborne Blade Antenna UHF

Type TB0405



The rugged airborne antennas model TB0405 and TS2400B are specially designed for applications onboard from aircrafts, drones and missiles

MECHANICAL SPECIFICATIONS

- Connector Type SMA female
- Materials/Colours Aluminium/ exalox natural
- Weight 69 g ($\leq 2,4$ oz)

ENVIRONMENTAL SPECIFICATIONS

- Temperature Range -100°C to $+210^{\circ}\text{C}$ (-150°F to $+410^{\circ}\text{F}$),
Continuously operating
Max. 350° for 30 sec.
- Maximum Speed max. 1.0 mach at 10 km altitude

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

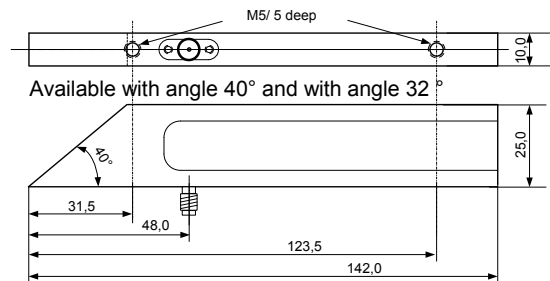
Shock M516.2, PIII, PV, A. 80G, 11msec, Terminal Saw Tooth, B. 200G, 11sec, Terminal Saw Tooth

3 Axis, 2 Shocks/Direction, ACC M513.2 PI $\pm 23\text{G}$, 3 Axis, 1Min/Axis

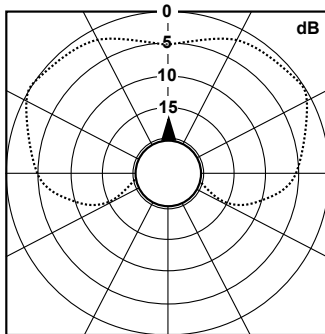
ELECTRICAL SPECIFICATIONS

- Center Frequency adjustable to required frequency
Range: 380 to 500 MHz, others on request
- Bandwidth: typ. 3 MHz at VSWR max. 2:1
- Polarisation: linear
- Gain: nom. 0 dBi
- Coverage: omni directional
- Power Rating: max. 20 W CW at sea level and 10 W CW at 10 km
- Impedance: 50 Ohms
- VSWR at f_c : better than 1.3:1
- at $f_c \pm 0,5$ MHz better than 1,5:1

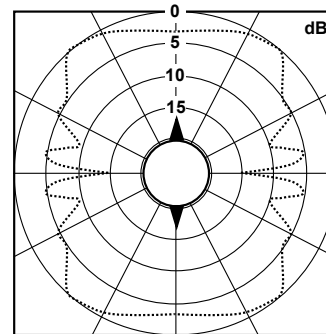
OUTLINE DIMENSIONS



TYPICAL ROLL PLANE PATTERNS for BLADE ANTENNA TB0405

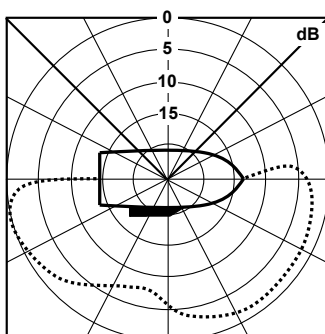


1 Antenna at 430 MHz
/750 mm dia.

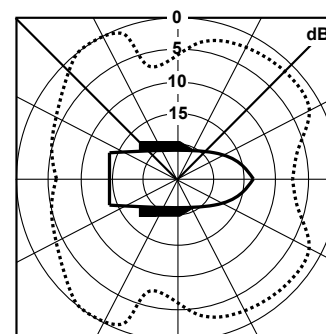


2 Antennas at 430
MHz/750 mm dia.

TYPICAL YAW PLANE PATTERNS for BLADE ANTENNA TB0405



1 Antenna at 430
MHz/750 mm dia.



2 Antennas at 430
MHz/750 mm dia.