

X-BAND SLOTTED BLADE ANTENNA

MODEL 8100X



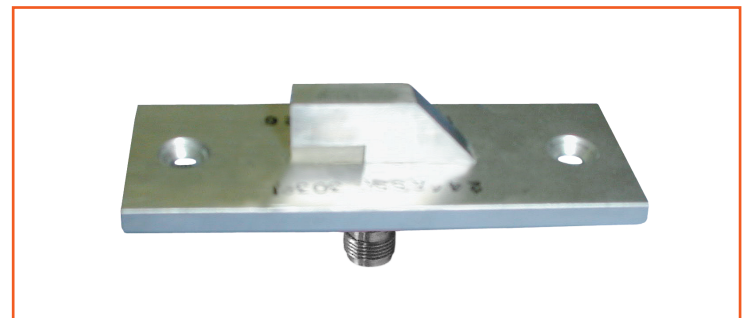
SUPPLYING HIGH PERFORMANCE FLIGHT INSTRUMENTATION, RF/MICROWAVE ASSEMBLIES, POWER AMPLIFIERS, IFF AND DATA ACQUISITION SYSTEMS FOR SEVERE ENVIRONMENTS.

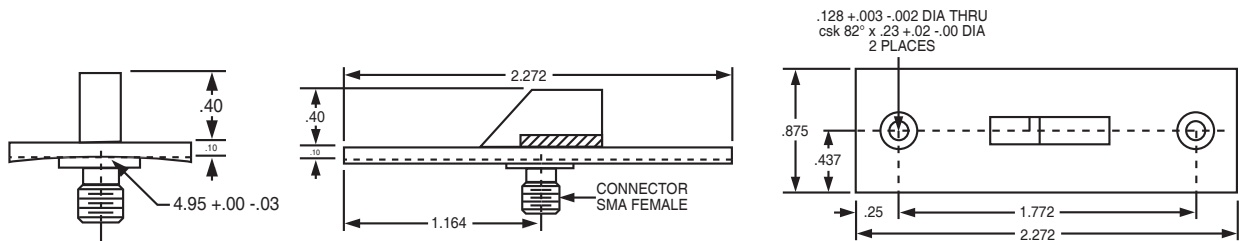
DESCRIPTION

The Model 8100X Slotted Blade X-Band Antenna is a three-quarter wave-length slotted blade, providing wider bandwidth. The antenna is constructed of stainless steel with a low-loss dielectric filler in the slot. It responds to both horizontal and vertical polarization. These antennas may be arrayed about the circumference of a vehicle, fed through phased cables by a two, three, or four-way power dividers (Models 853-2X1, 854-3X1, and 855-4X1, respectively).

FEATURES

- 9.0 to 9.6 GHz frequency
- Vertical and horizontal linear response
- Antenna body constructed of stainless steel with a low-loss dielectric filler in the slot
- Three-quarter wavelength slotted blade providing wider bandwidth





ELECTRICAL

- Frequency Range: 9.0 to 9.4 GHz
- Impedance: 50 ohms
- VSWR: < 2.0:1 maximum
- Polarization: Vertical and horizontal linear response
- Power: 1 kw peak minimum
- Connector: SMA female
- Mounting: Standard flange can be altered according to need
- Acceleration: 50 g along any axis for 1 minute
- Vibration: 10 g rms 20 - 200 Hz
- Shock: 147 g (4 milliseconds)

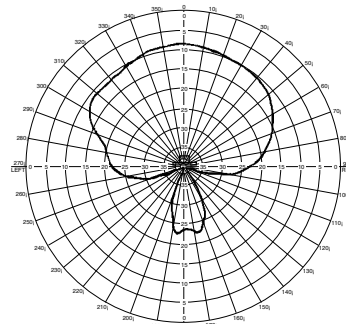
PHYSICAL

- Size: 2.27" x .875" x .5" (5.77 x 2.22 cm)
- Weight: 2 ounces (56.7 gms) maximum

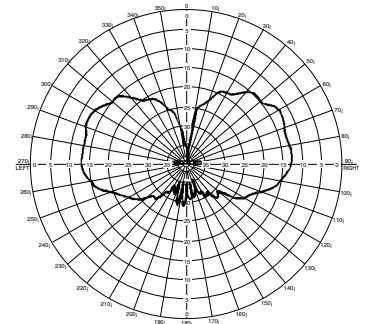
PRODUCT NUMBERS

- P/N 303941-1 - Standard unit

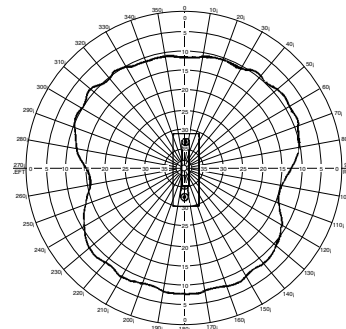
VERTICAL ROLL PLANE



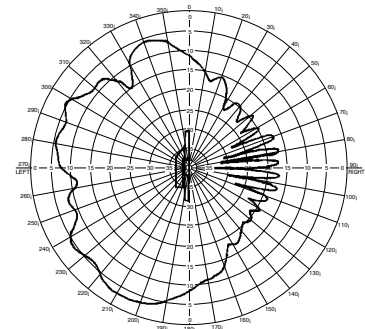
HORIZONTAL ROLL PLANE



VERTICAL YAW PLANE



VERTICAL PITCH PLANE



making a difference

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