

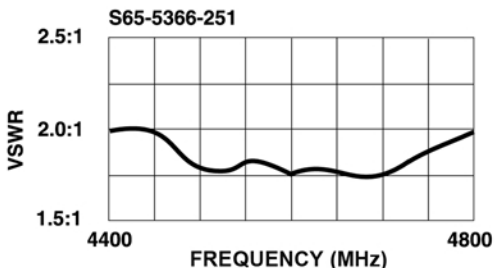


DESCRIPTION

S65-5366-251: Designed for telemetry and beacon missile and target drone applications, this conformal C-band Command and Control Antenna was developed for the Navy and is currently operational on several aerial targets. Antenna provides omni-directional coverage with a minimum gain of +1 dBic at zenith. The antenna housing is machined from aluminum and the O.M.L. can be modified to meet a specific requirement. The antenna is normally furnished with a right angle "SMA" connector with other connectors available as options.

FEDERAL & MILITARY SPECS: MIL-E-5400, MIL-C-5541, MIL-STD-810.

PERFORMANCE



SPECIFICATIONS	C-BAND
MODEL	S65-5366-251
ELECTRICAL	
Frequency	4.4 To 4.8 GHz
VSWR	≤ 1.5:1
Polarization	RHCP
Impedance	50 ohms
Axial Ratio	< 4dB @ Zenith
Gain Coverage (min)	-1.0 dBic 0° ≤ θ ≤ 75° -2.5 dBic 75° < θ ≤ 80° -4.5 dBic 80° < θ ≤ 85° -7.5 dBic θ = 90° @ Horizon
Power Handling	7 Watts peak
MECHANICAL	
Weight	3 oz.
Height	Flush
Length	2.700 in.
Width	2.700 in.
Material	6061-T6 aluminum / teflon
Finish	Iridite per MIL-DTL-5541
Connector	"SMA" FEMALE
ENVIRONMENTAL	
Temperature	-62°C (-80°F) to +95°C (+203°F)
Vibration	10 Gs
Altitude	-1,500 to 70,000 ft.

S65-5366-251

Top View Dimensions: 2.162 (width), 1.081 (radius), .172 DIA THRU C'SINK .337 DIA X 100° 4 PLACES, .375 RAD 4 Places, DO NOT PAINT.

Side View Dimensions: .500 (height), .073 (thickness), 6.750 R (radius).

Front View Dimensions: 2.700 (width), 2 PLC'S (port location), 1.350 (port offset), .250 (port depth).

Connector: TYPE SMA

Note: For Reference Only.
Contact Sensor Systems for the latest engineering drawings.

Doc # DS S65-5366-251_NC, 032514: MRKT **MDV** ENG **RC** QC **DJ**