



FAA Approved Facility

Tx:(1985-2015)MHz / Rx:(2170-2200)MHz RHCP

ICO-F2/Omnispace/Omni-Sat Antennas

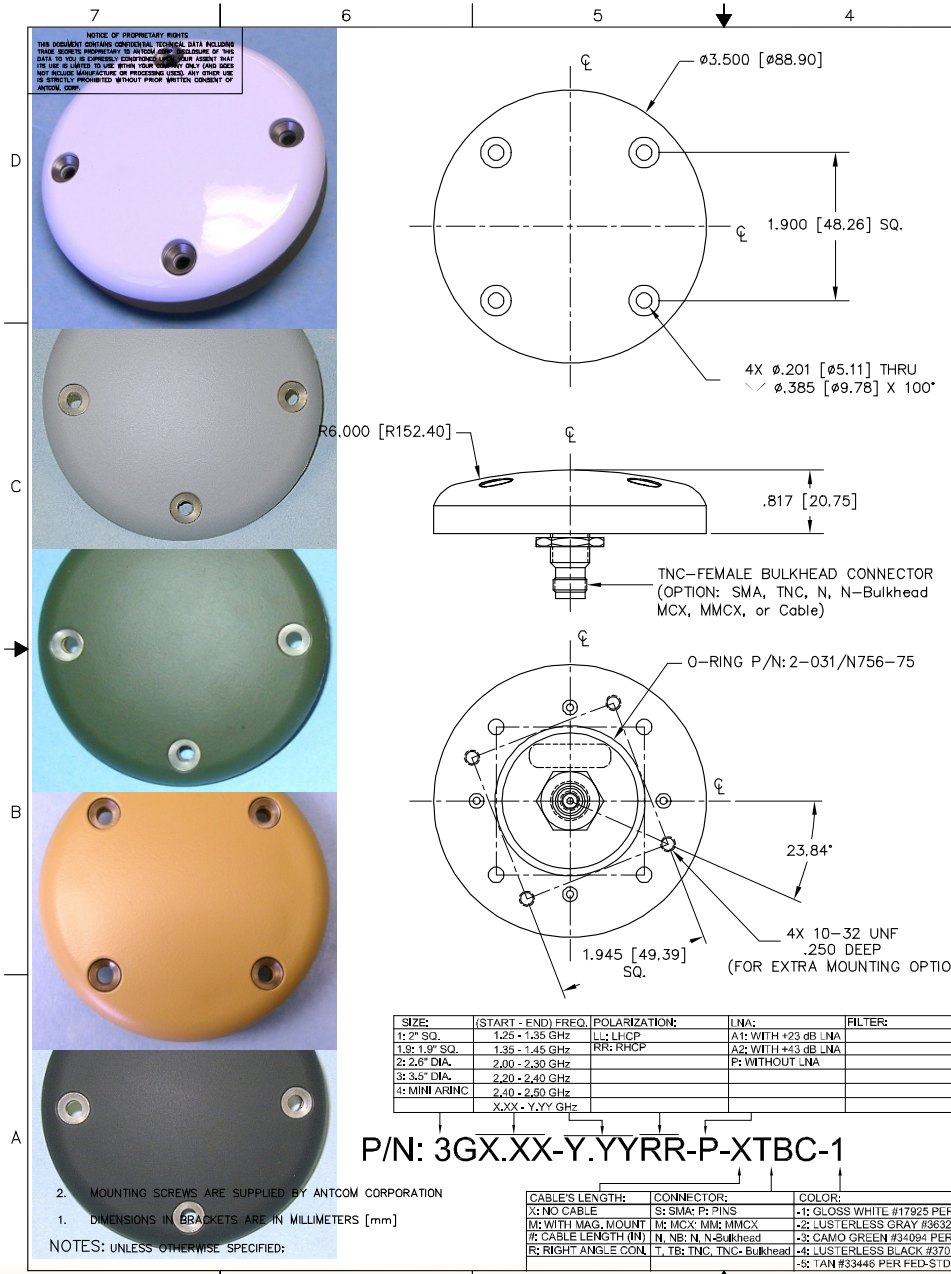
P/N: 3G1.98-2.20RR-P-XTBC-1



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Other Frequencies, Antenna Sizes, Connectors/Locations, and Mounting Configurations are Available

NMO Connector is Now Available for Some Antennas



**ELECTRICAL:**

RADIATION PATTERN:		HEMISPHERICAL	
POLARIZATION:		RHCP	
VSWR:		< 1.5:1	
GAIN (dB):		4 ft G.P.	Free Space
@ 90° (Zenith):		+4.6	+6.1
@ 10° Elevation (Ave):		-1.1	-2.4
@ 20° Elevation (Ave):		+2.2	-0.3
@ 30° Elevation (Ave):		+2.2	+1.0
@ 45° Elevation (Ave):		+3.4	+2.9
@ 70° Elevation (Ave):		+4.4	+5.3
Beam Width (3dB):		110 °	88 °
AXIAL RATIO @ Zenith:		2.0 dB	
IMPEDANCE:		50 Ohms	
POWER HANDLING:		200 Watt	
DC GROUNDING:		YES (LIGHTNING PROTECTION)	

**MECHANICAL:**

**SIZE:** DIAMETER = 3.50 in. [ 88.90 mm ]  
 HEIGHT = 0.817 in. [ 20.75 mm ]  
 5.15 oz. (. 146 Kg )

**FINISH:** SKYDROL RESISTANT POLYURETHANE ENAMEL  
 BASE IRIDIUM PER MIL-C-5441F

**COLOR:** GLOSS WHITE #17925 PER FED-STD-595B  
 LUSTERLESS GRAY #36320 PER FED-STD-595B  
 OLIVE DRAB GREEN #34031 PER FED-STD-595B  
 LUSTERLESS BLACK #37038 PER FED-STD-595B

**MATERIAL:** 6061-T6 ALUMINUM ALLOY BASE  
 COMPOSITE RADOME. IMPACT, ABRASION, UV, SOLVENT,  
 AND SKYDROL RESISTANCE, FIRE RETARDANT

**CONNECTOR:** TNC-FEMALE BULKHEAD  
 (OPTION: SMA, TNC, N, N Bulkhead, MCX, MMCX, or Cable)

**ENVIRONMENTAL:**

**TEMPERATURE:** -67 °F TO +185 °F [-55 °C TO +85 °C]

**ALTITUDE:** 70,000 ft.

**VIBRATION:** > 30 G's

**LEAKAGE:** HERMETICALLY SEAL

**FEDERAL & MILITARY SPECIFICATIONS:**

**DESIGN TO:** FAA TSO-C144, DO-160D, DO-228, MIL-C-5541,  
 MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

SIZE:	(START - END) FREQ.	POLARIZATION:	LNA:	FILTER:
1: 2" SQ.	1.25 - 1.35 GHz	L/L: LHCP	A1: WITH +23 dB LNA	
1.8" 1.9" SQ.	1.35 - 1.45 GHz	RR: RHCP	A2: WITH +43 dB LNA	
2: 2.6" DIA.	2.00 - 2.30 GHz		P: WITHOUT LNA	
3: 3.5" DIA.	2.20 - 2.40 GHz			
4: MINI ARINC	2.40 - 2.50 GHz			
	X.XX - Y.YY GHz			

P/N: 3GX.XX-Y.YYRR-P-XTBC-1

CABLE LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N, NB: N, N-Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
R: RIGHT ANGLE CON.	T, TB: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		-5: TAN #33446 PER FED-STD-595B

ANTCOM CORP. TORRANCE, CALIFORNIA

3.5" Dia. FLAT FIXED MOUNT L/S/WIFI ANTENNA

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS DECIMALS ANGLES  
 ± 1/64 .0004 .005 ± 1°

TOLERANCE SURF PER ANSI Y14.5  
 REMOVE ALL BUMPS  
 BREAK EXTERNAL EDGES .005 TO .016  
 FILED .005 TO .016  
 SAE'S ON A COMMON 1:2,000  
 MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

3.5" Dia. FLAT FIXED MOUNT L/S/WIFI ANTENNA

REV. DATE BY

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SCALE 1/1 SHEET 1 OF 1