

REVISION HISTORY			
REV	DESCRIPTION	ECO	DATE
01	PROTOTYPE REVISION	-	10-9-25
02	UPDATE FEDERAL & MILITARY SPECS	-	10-21-25
03	UPDATE TEMPERATURE	-	12-9-25
04	UPDATE DWG TITLE	-	2-4-26

PRELIMINARY

SPECIFICATIONS

ELECTRICAL

FREQUENCY	4200 TO 4400 MHz
VSWR	≤ 1.8:1 (4250-4350 MHz) ≤ 2.0:1 (4200-4400 MHz)
IMPEDANCE	50 OHMS
POLARIZATION	LINEAR
POWER HANDLING	10 WATT (AVG) 100 WATT (PEAK)
IN-BAND GAIN (4200-4400 MHz)	> 8.5 dBi @ZENITH < 11.5 dBi @ZENITH
OUT-OF-BAND GAIN	11.5 dBi MAX (3000-5600 MHz)
AVERAGE GROUP DELAY	1.1 ns
AVERAGE GROUP DELAY UNCERTAINTY	< 0.2 ns < 1 ns PEAK-TO-PEAK (2-50 MHz)
GROUP DELAY RIPPLE	< (3-100/Tgd) ns PEAK-TO-PEAK (50-100 MHz)
LIGHTNING PROTECTION	< 2 ns PEAK-TO-PEAK (100-200 MHz) D.C. GROUNDED

MECHANICAL

WEIGHT	4.0 OZ
FINISH	SKYDROL RESISTANT POLYURETHANE ENAMEL COLOR GLOSS WHITE BASE IRIDITE PER AMS-C-5541
CONNECTOR MATERIAL	TYPE "TNC" FEMALE ALUM 6061-T6; TEFLON/GLASS

ENVIRONMENTAL

TEMPERATURE	-55°C (-67°F) TO +70°C (+158°F)	} PENDING
GROUND SURVIVAL HIGH TEMPERATURE	+85°C (+185°F)	
ALTITUDE	-100' TO 60,000 FT.	
VIBRATION	10 G's	

FEDERAL AND MILITARY

DESIGNED TO:	MEET NEW RTCA MOPS TSO REQUIREMENTS ARINC 707 COMPATIBLE
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ISOLATION

14" LATERAL SEPARATION	
20" LONGITUDINAL SEPARATION	50 dB 88 dB

DASH NO.(-X) TABULATION	
DASH# (-X)	PAINT COLOR
-1	WHITE

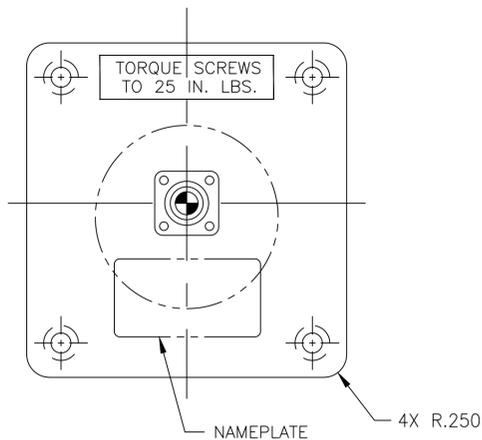
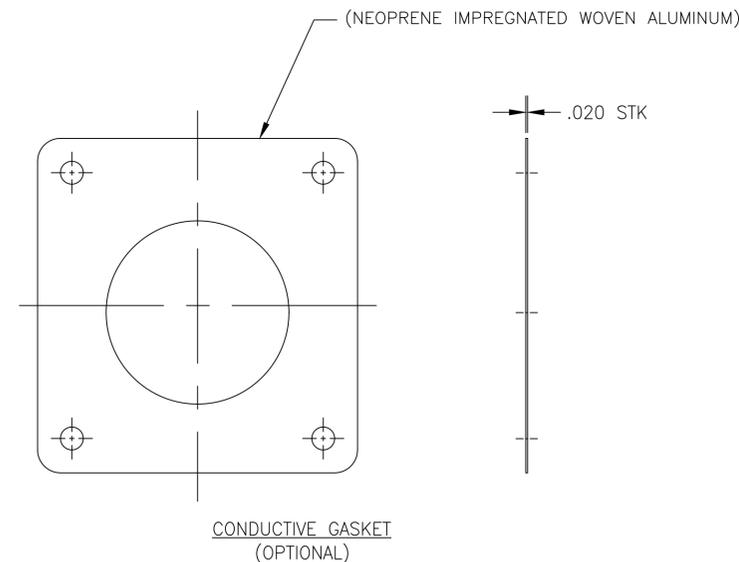
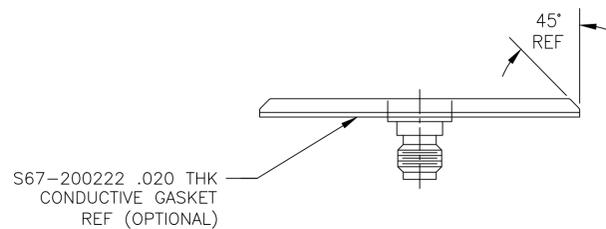
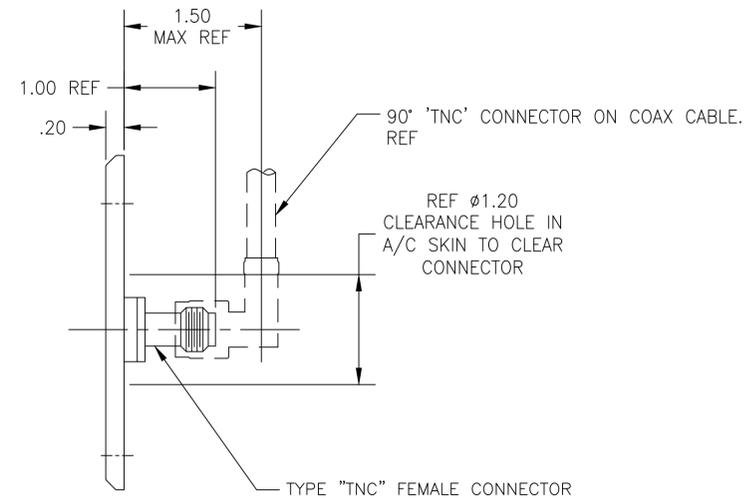
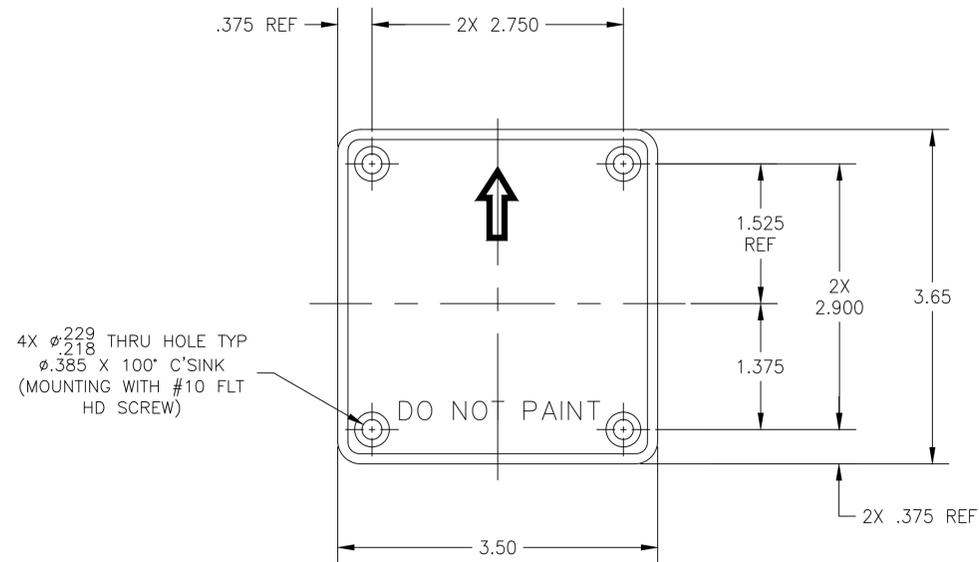
QTY	CAGE CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	FIN. NO.
1	S67-200222	CONDUCTIVE GASKET	.020 THK		2
4	MS24693C272	MOUNTING SCREWS	STAINLESS STEEL		1

PARTS LIST			
UNLESS OTHERWISE SPECIFIED	DRAWN	A. GERSCOVICH	10-9-25
DIMENSIONS ARE IN INCHES. TOLERANCES ARE:	CHECKED		
DECIMALS .XX±.03	PROJ ENGR		
ANGLES .XXX±.010	ENGR MGR		
✓ SURFACE TEXTURE PER ASME B46.1	ENGR DIR		

TITLE			
OUTLINE DRAWING 5G COMPATIBLE RADAR ALTIMETER ANTENNA			

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SIZE	CAGE CODE	DWG NO.	REV.
D	13691	S67-2002-34	04



NOTES: UNLESS OTHERWISE SPECIFIED