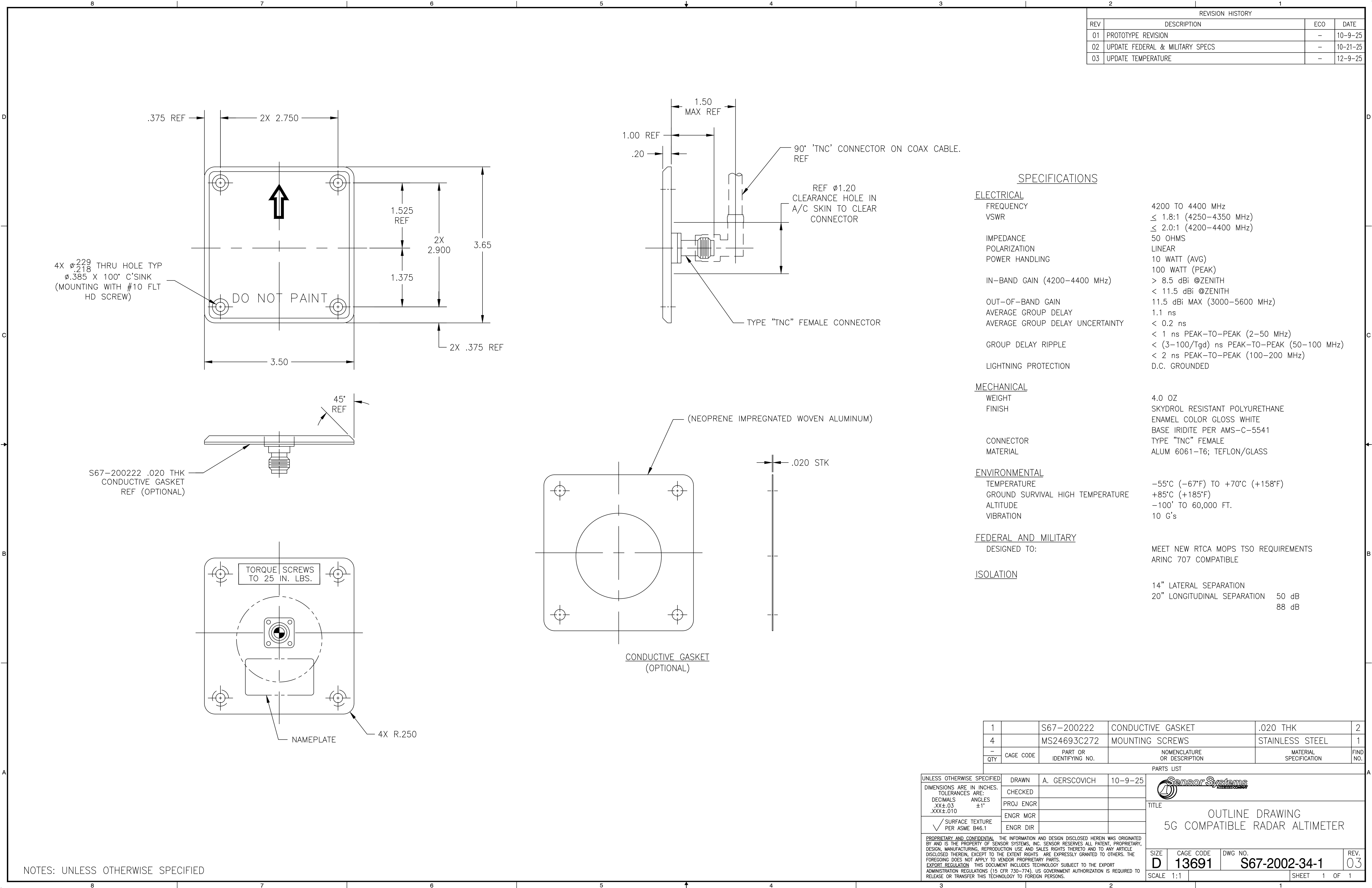




REVISION HISTORY			
REV	DESCRIPTION	ECO	DATE
01	PROTOTYPE REVISION	-	10-9-25
02	UPDATE FEDERAL & MILITARY SPECS	-	10-21-25
03	UPDATE TEMPERATURE	-	12-9-25

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) < (3-100/Tgd) ns PEAK-TO-PEAK (50-100 MHz)
GROUP DELAY RIPPLE	< 2 ns PEAK-TO-PEAK (100-200 MHz)
LIGHTNING PROTECTION	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)
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

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

PARTS LIST

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

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TITLE OUTLINE DRAWING 5G COMPATIBLE RADAR ALTIMETER			
SIZE D	CAGE CODE 13691	DWG NO. S67-2002-34-1	REV. 03
SCALE 1:1	SHEET 1 OF 1		

NOTES: UNLESS OTHERWISE SPECIFIED