

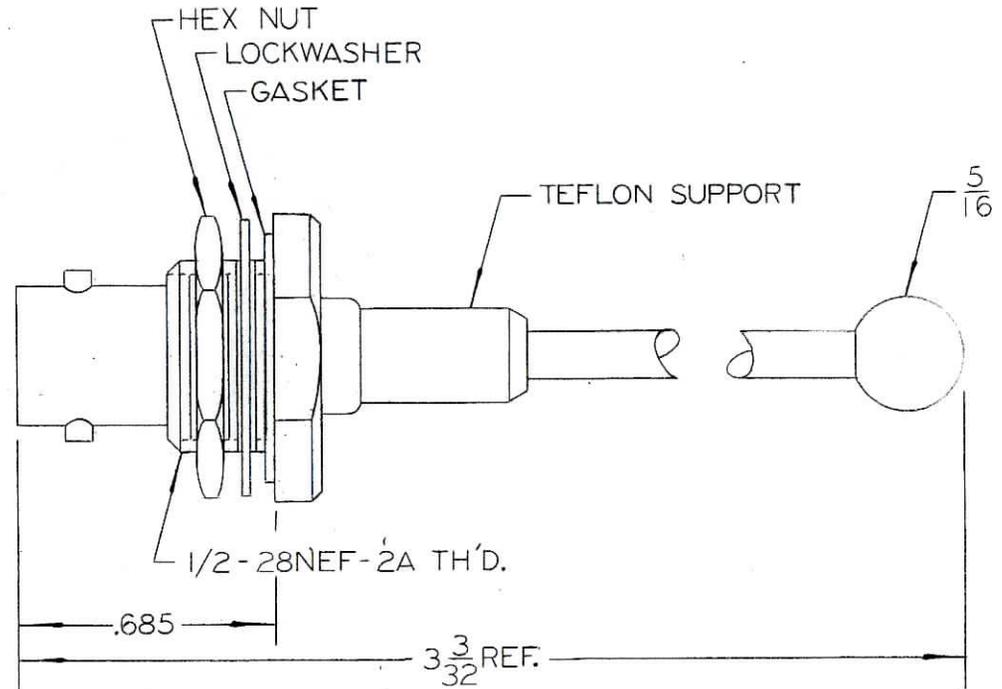
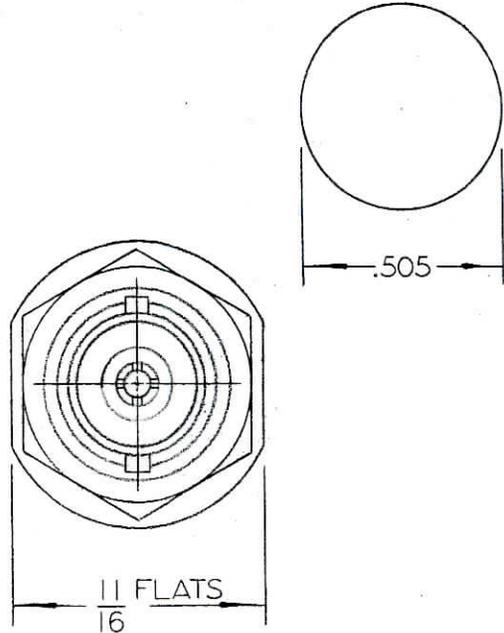
IMPORTANT

ANY INFORMATION SUPPLIED IN ANY WAY WHICH PERTAINS TO THIS PART SHALL BE TREATED AS PROPRIETARY AND ITS USE OR DISCLOSURE IN WHOLE OR PART FOR PURPOSES OTHER THAN DIRECT FULFILLMENT OF CONTRACTS WITH THIS COMPANY, WITHOUT ITS WRITTEN CONSENT IS PROHIBITED.

REVISIONS

Sym.	Description	Date	Approval
B	REVISED OVERALL LENGTH.	2-9-73	SEARS
C	REVISED FREQUENCY TO CUSTOMER SPEC.	10-4-77	SEARS
D	REVISED LENGTH FOR CORRECT FREQUENCY.	3-29-79	SEARS

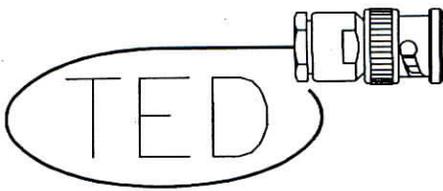
MOUNTING HOLE



NOTES:

1. FREQUENCY; RESONANT, 1090 MC, VSWR NO GREATER THAN 1.2 TO 1.
2. 7/32 MAX. PANEL THICKNESS.

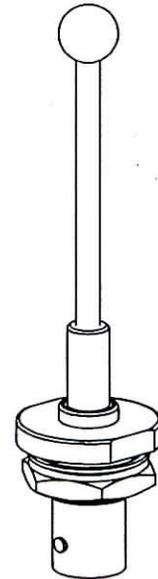
UNLESS OTHERWISE SPECIFIED	ITEM	REQD.	PART NO.	DESCRIPTION	MAT'L	MAT'L SPEC.	UNIT WT.	
DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES $\pm 1/64$ $\pm .005$ $\pm 1^\circ$ REMOVE ALL BURRS & SHARP EDGES PLATE: NICKEL _____ SILVER _____ GOLD _____ NON - TARNISH F532	LIST OF MATERIAL							
	DR. <i>SEARS</i> DATE <i>1-13-73</i>				TITLE TRANSPONDER ANTENNA			 TED MANUFACTURING CORP. 11415 JOHNSON DRIVE SHAWNEE, KANSAS
	CK.		DATE					
	APPR. <i>[Signature]</i>		DATE <i>1-13-73</i>					
	APPR.		DATE					
	CUSTOMER APPROVAL				DWG. NO. 104-12			REV. D
	APPR.		DATE					
	APPR.		DATE					
					SCALE	PLATING AREA		



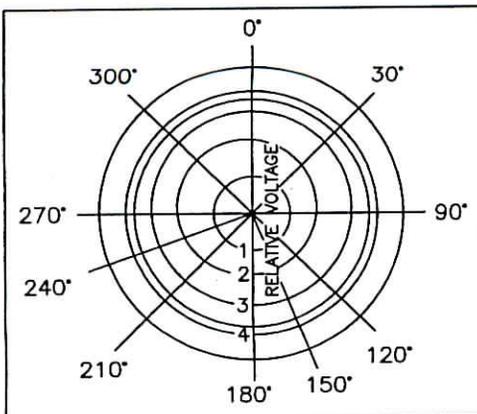
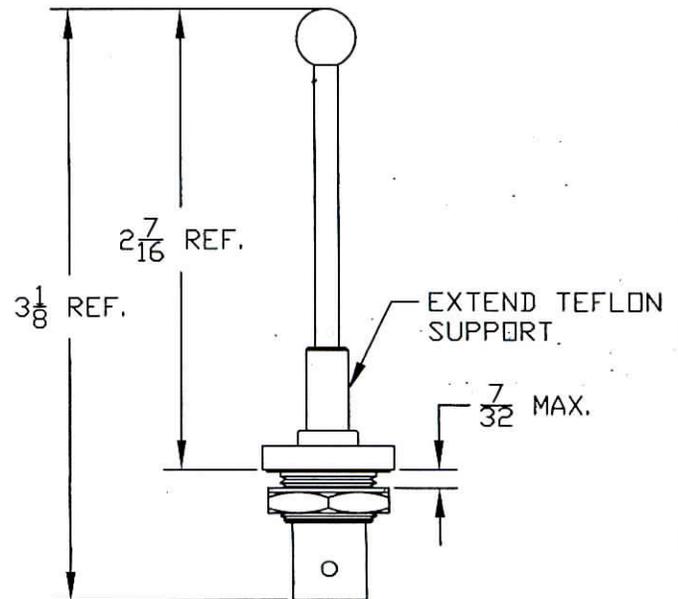
TED 104-12 monopole (post) miniature transponder antenna

TRANSPONDER ANTENNA

This monopole antenna is top loaded with a sphere to give an effectively shorter antenna and to create a factor of safety. When fed by a 50 ohm coaxial transmission line, the antenna offer a voltage standing wave ratio of 1.2:1 at 1090 MHz and less than 2:1 at 1030 MHz.. The antenna presents an omnidirectional vertically-polarized radiation pattern when mounted to the underside of the aircraft fuselage. It weighs a slight .7 ounces and is readily mounted by means of "O" ring sealed single hole bulkhead feed through with type BNC female connector.



SPECIFICATIONS	
FREQUENCY	1030 TO 1090 MHz
VSWR	1.3:1 1030 MHz 1.2:1 1090 MHz
POLARIZATION	VERTICAL
RESISTANCE DC	OPEN CIRCUIT
IMPEDANCE	50 OHMS
POWER RF	1.0 KW PEAK @ 55,000 ft.
FINISH	NICKEL PLATE
ALTITUDE	30,000 FT.
AIR SPEED	300 KNOTS TAS
WEIGHT	0.05 Lb. MAX.



POLAR RADIATION PATTERN