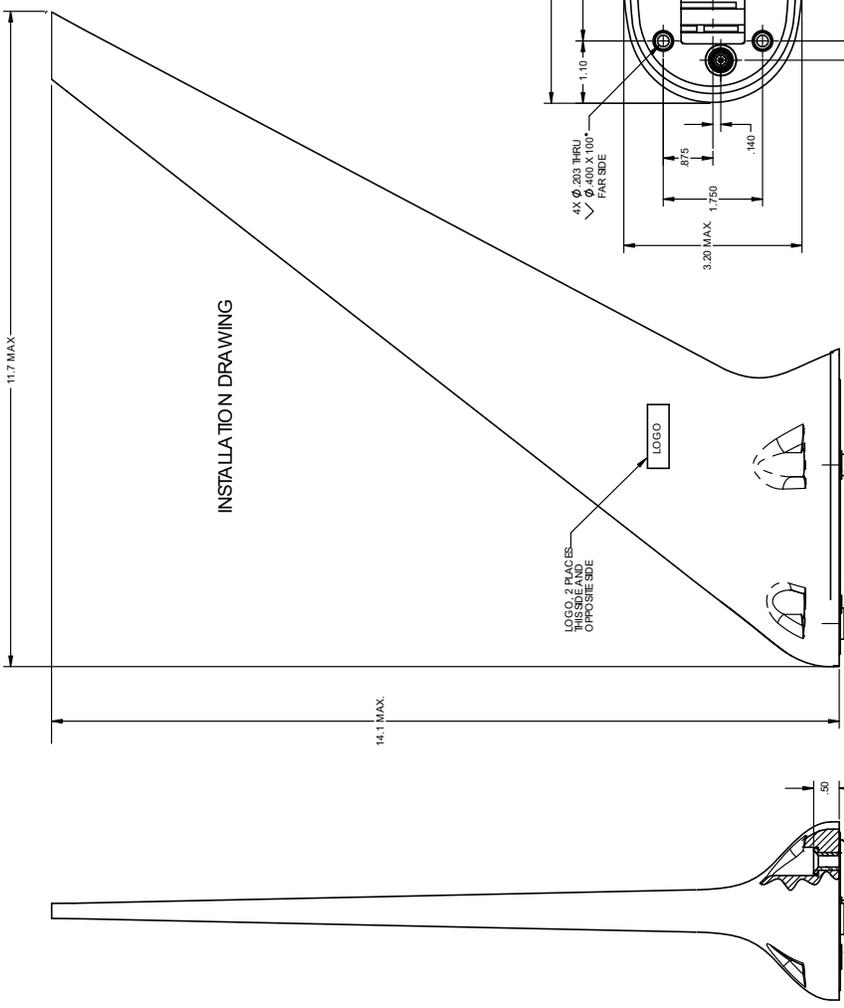


REV	DESCRIPTION	DATE	APPROVAL
A	RELEASED DRAWING	TS 02/26/05	DH 05/26/05
B	REF ECDN 06-19	MN 07/03/06	DH 03/03/06
C	REF ECDN 06-43	MN 07/03/06	DH 05/03/06
D	REF ECDN 06-142	AV 07/07/07	DH 07/07/07
E	REF ECDN 06-095	MN 11/14/09	DH 11/16/09

ANTENNA NOTES AND SPECIFICATIONS

- 1.0 XM SPECIFICATION
- 1.1 ACTIVE & PASSIVE ANTENNA CHARACTERISTICS
- 1.2 FREQUENCY 2332.5 TO 2345.0 MHz
- 1.3 VSWR 1.5:1 MAX.
- 1.4 POLARIZATION LEFT HAND CIRCULAR
- 1.5 RADIATION PATTERN HEMISPHERICAL
- 1.6 GAIN (MEASURED ON 4° CIRCULAR GROUND PLANE) 4.4dB ± 1.0dB (NOM. ZENITH)
- 1.7 GAIN (MEASURED ON 4° CIRCULAR GROUND PLANE) 4.4dB ± 1.0dB (NOM. ZENITH)
- 1.8 AMPLIFIER CHARACTERISTICS - ACTIVE ANTENNA
- 1.9 GAIN 25 ± 2 dB
- 1.10 DC VOLTAGE 3.6 TO 24 VDC
- 1.11 DC CURRENT 35mA TO 55mA (TYPICAL @ 24VDC)
- 1.12 OUT OF BAND ATTENUATION: 25dB MIN. @ FC ± 250 MHz
- 1.13 OUT OF BAND FILTER ATTENUATION: 25dB MIN. @ FC ± 250 MHz
- 2.0 VHF - ANTENNA CHARACTERISTICS (Tx = 20°C ± 5°C)
- 2.1 RF CHARACTERISTICS - VHF COMM
- FREQUENCY 118 - 137 MHz
- VSWR 2.9:1 MAX.
- RL -6.25 dB
- POLARIZATION VERTICAL
- RADIATION PATTERN OMNIDIRECTIONAL
- POWER RATING 50 WATTS
- IMPEDANCE 50 OHMS
- 3.0 ANTENNA WEIGHT 1.25 LB. MAX.
- 4.0 TSO C169 (INCOMPLETE SYSTEM) - XM FUNCTION NOT CERTIFIED BY TSO
- RTCA DO-160B ENV. CAT. 1.F2X(A)(B)(S)(C)(L)(M)(C)(Y)(R)(X)SFDSXXXXXX00000000X
- 5.0 SHELL CONSTRUCTION MATERIAL 60% GLASS-FILLED NYLON
- 6.0 FINISH GLOSSY WHITE POLYURETHANE PAINT
- 7.0 MOUNTING SURFACE, CONNECTORS AND MOUNTING HOLES ARE FREE OF PAINT.
- 8.0 A288117 INSTALLATION INSTRUCTIONS SUPPLIED WITH ANTENNA.



ASSEMBLY DRAWING NO. D268116

REV.	DESCRIPTION	DATE	APPROVAL
1	ISSUED	02/26/05	DH 05/26/05
2	REVISION	07/03/06	DH 03/03/06
3	REVISION	07/03/06	DH 05/03/06
4	REVISION	07/07/07	DH 07/07/07
5	REVISION	11/14/09	DH 11/16/09

CONTRACTING NO.	CONTRACTING NO.
51351	51351
CI 2680-216	CI 2680-216
E	E

DESCRIPTION	PARTS LIST	MATERIAL SPECIFICATIONS
CONTRACTING NO.	CONTRACTING NO.	CONTRACTING NO.
51351	51351	51351
CI 2680-216	CI 2680-216	CI 2680-216
E	E	E

UNLESS OTHERWISE SPECIFIED	TOLERANCES ON DECIMALS	APPROVALS	DATE
FRACTIONS & DECIMALS	XXX.XX	XXX.XX	XXX.XX
MACHINE FINISH UNLESS OTHERWISE SPECIFIED	PER ANSI B46.1	PER ANSI B46.1	PER ANSI B46.1
MEET DIMENSIONS BEFORE PLATING	PER ANSI B46.1	PER ANSI B46.1	PER ANSI B46.1
MEET DIMENSIONS AFTER PLATING	PER ANSI B46.1	PER ANSI B46.1	PER ANSI B46.1
MATERIAL	PER ANSI B46.1	PER ANSI B46.1	PER ANSI B46.1