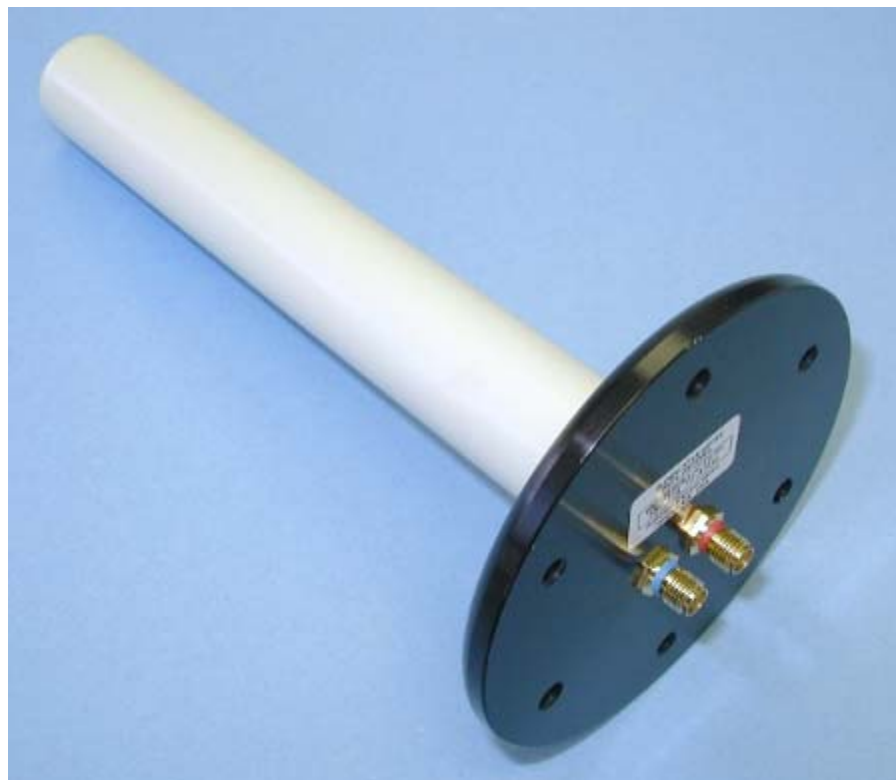


**Tx/Rx Globalstar Helix Antenna,
P/N: 73G1625LL-A1-XS-1F1:
Pictures, Outline Drawing, Specification,
Part List, Part Drawing
and Test Data**



Tx/Rx Globalstar Helix Antenna,
P/N: 73G1625LL-A1-XS-1F1

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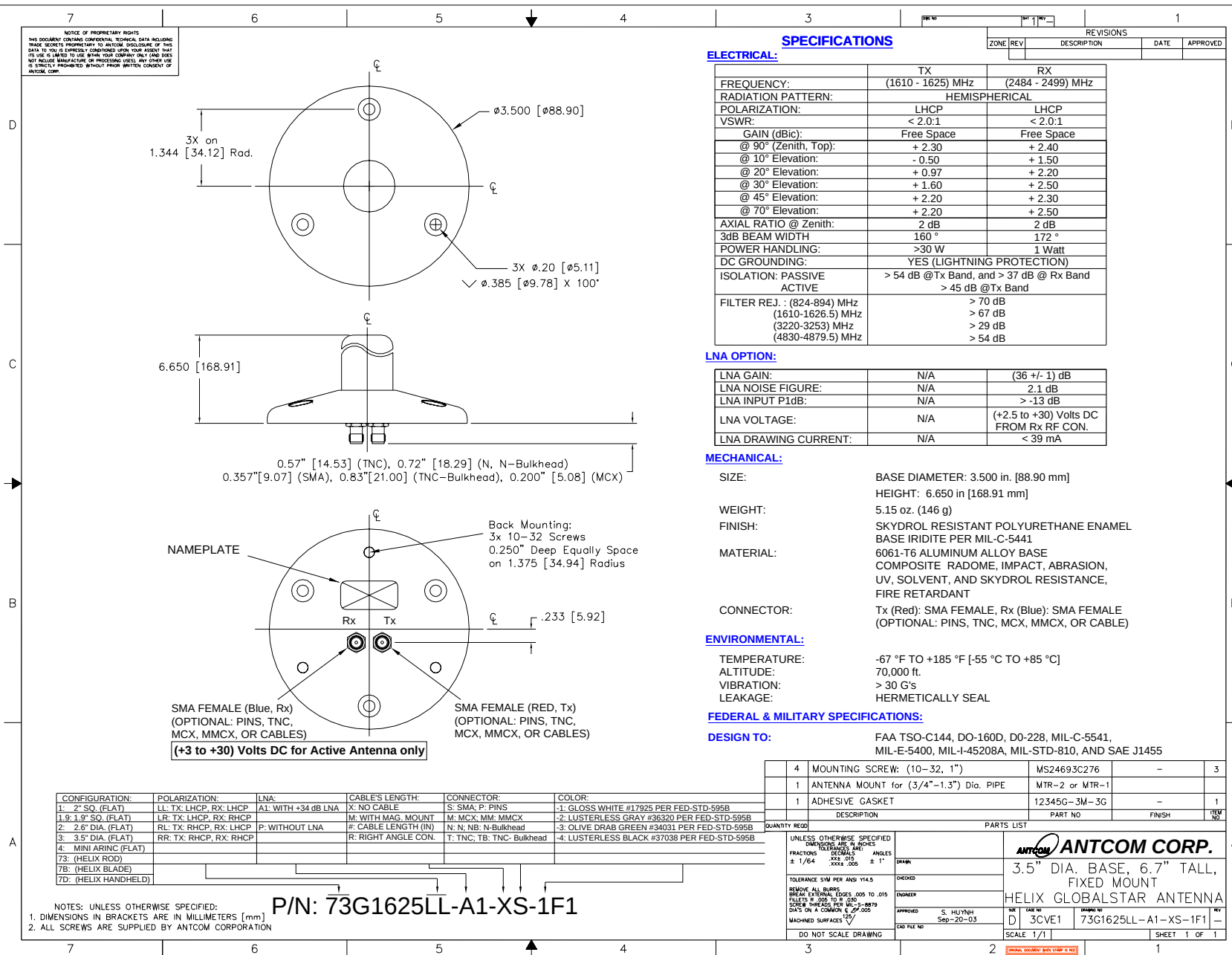




Active Tx/Rx Globalstar Antenna:

P/N: 73G1625LL-A1/P-XS-1F1, Outline Drawing

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Antenna Mount: P/N: MTR-1

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Antenna Mount: P/N: MTR-2 (for Both Vertical/Horizontal Pipe)



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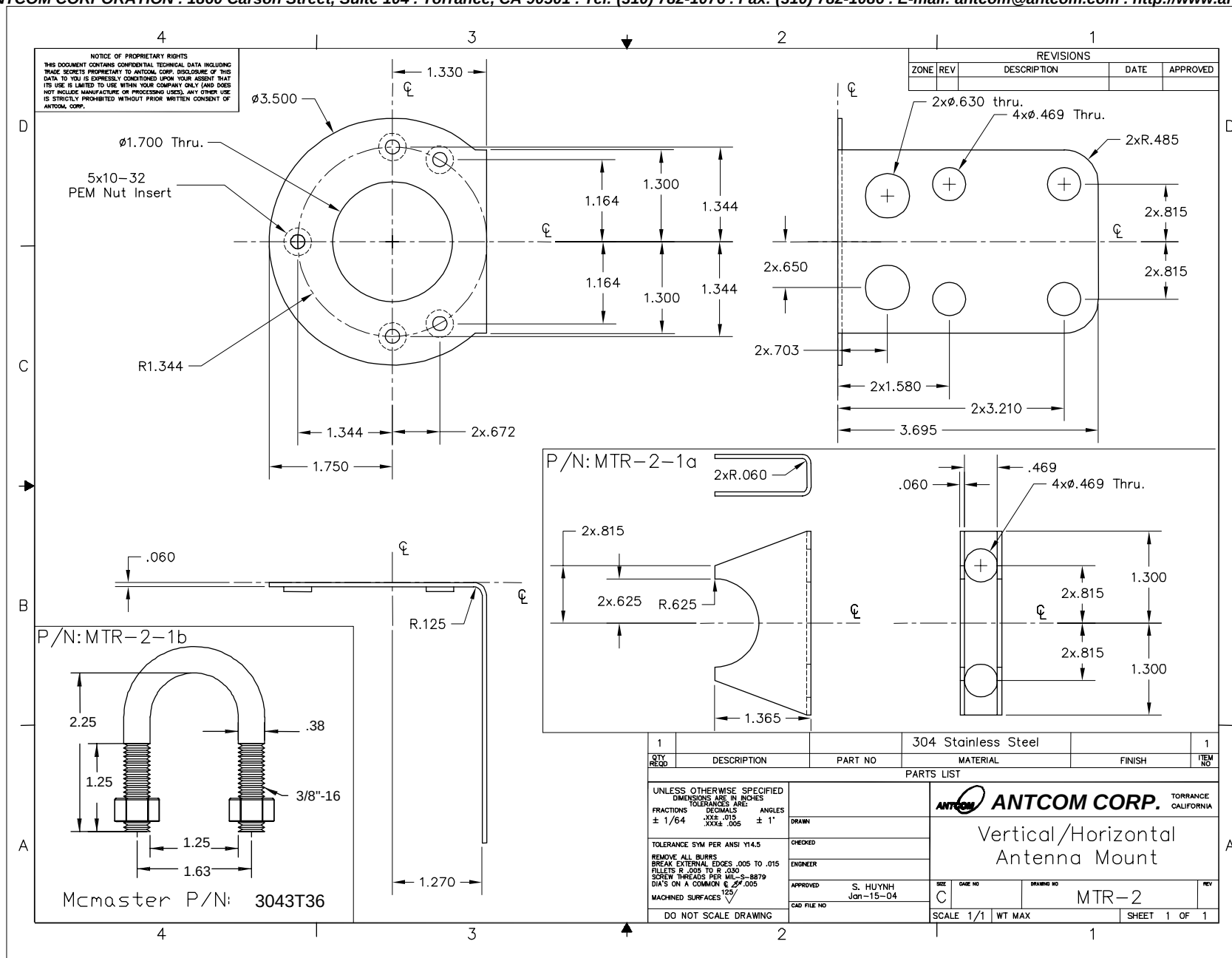


Antenna Mount:

P/N: MTR-2 (for Both Vertical/Horizontal Pipe)



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Magnetic Mount: P/N: MTR-4

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Part List of Tx/Rx Globalstar Helix Antenna,

P/N: 73G1625LL-A1-XS-1F1



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Item	Location	Part Number/ Drawing Number	Part Description	Qty/Unit
1	Rad6	5XX151625-R-1	Globalstar Radome	1
2	B6	3G1625A-1-4	3G2C Baseplates	1
3	SMA2	242129-10	Tx-Connector, SMA Female to MCX Female Modified Adpater	1
4	SMA1	132363-10	Rx-Connector, SMA Bulkhead Receptacle Extended Contact 0.050"/0.050"	1
5	CA1	RG178-MCX-RM-3.8	Tx Cable, LOW PROFILE RIGHT ANGLE MCX MALE PIG TAIL RG-178B/U (196A/U) CABLE	1
6	CA2	RG178-1.1	Rx RF Cable	1
7	P1	#15-LTX-B3	Tx Helix Antenna CKT	1
8	P2	#5-LRX-G3	Rx Helix Antenna CKT	1
9	FO1	3D1215P-4MMCX-3-C	Helix-Antenna-Spacer Foam	1
10	FO2	3D1215P-4MMCX-3-S	Helix-Antenna-Wrapper Foam	1
11	G	RTV 106	RTV 106 (1.4 mL)	1
12	MS	93085A831	4 Mounting Screws MS24693C274 Flat Head Screw, 18-8 SS 100 Degree, 10-32 thread, 3/4" long	4
13	N	E-188-51-10	Nameplate 1"x0.50" (RSI ID, Anchor Graphic) Material: 25 (Silver Matte Polyester); 51 White (0.65x0.2")	1
14	AMP1	73G1625LL-A1-XS-1F1-A	LNA CKT Assembly	1
15	C1	TAJC107K006R	100 MicroF Tantalum Capacitor, C1 (Panasonics)	1
16	C2	PCC1762TR-ND	0.1 MicroF Capacitor, 603, C2 (Panasonics)	1
17	C5	PCC221ACVTR-ND	220 PF Capacitors, 603, C5 (Panasonics)	2
18	C11	PCC1R5CVTR-ND	1.5 PF Capacitor, 603, C11 (Panasonics)	1
19	C13	PCC010CVTR-ND	1.0 PF Capacitor, 603, C13 (Panasonics)	3
20	C14	PCC0R5CVTR-ND	0.5 PF Capacitor, 603, C14 (Panasonics)	2
21	C30	PCC271ACVTR-ND	270 PF Capacitor, 603, C30 (Panasonics)	3
22	C70	PCC150ACVTR-ND	15 PF Capacitor, 603, C70 (Panasonics)	1
23	L6	PTL2012-F5N6C	5.6 nH Chip Inductor, 805, L6 (Toko)	1
24	L7	PTL2012-F4N7C	4.7 nH Chip Inductor, 805, L7 (Toko)	1
25	L8	PTL2012-F3N9C	3.9 nH Chip Inductor, 805, L8 (Toko)	1
26	L9	PTL2012-F3N3C	3.3 nH Chip Inductor, 805, L9 (Toko)	1
27	L11	PTL2012-F1N0C	1.0 nH Chip Inductor, 805, L11 (Toko)	1
28	L12	PTL2012-F1N5C	1.5 nH Chip Inductor, 805, L12 (Toko)	2
29	L39	PTL2012-F39NT	39 nH Chip Inductor, 805, L39 (Toko)	2
30	R1	LP2951ACMM-3.3	Voltage Regulator 3.3 V Fixed, R1(National)	1
31	T6	MGA85563	Amplifier, T6	1
32	T2	RF2324	Amplifier, T2	1
33	F5	UF2450M135	Filter, F5 (UBE)	1
34	R2	P49.9CTR-ND	50 Resistor 100mW, 805, R2 (Panasonics)	1
35	R8	P10.0CTR-ND	10 Resistor 100mW, 805, R8 (Panasonics)	1
36	R12	P120ATR-ND	120 Resistor 100mW, 805, R12 (Panasonics)	1
37	R18	P180ATR-ND	180 Resistor 100mW, 805, R18 (Panasonics)	1
			Total	48

Tx/Rx Globalstar Helix Antenna,
P/N: 73G1625LL-A1-XS-1F1,
Part Drawing and Pictures





**Radome, P/N: 5XX151625-R-1 of
Tx/Rx Globalstar Helix Antenna, P/N: 73G1625LL-A1-XS-1F1**



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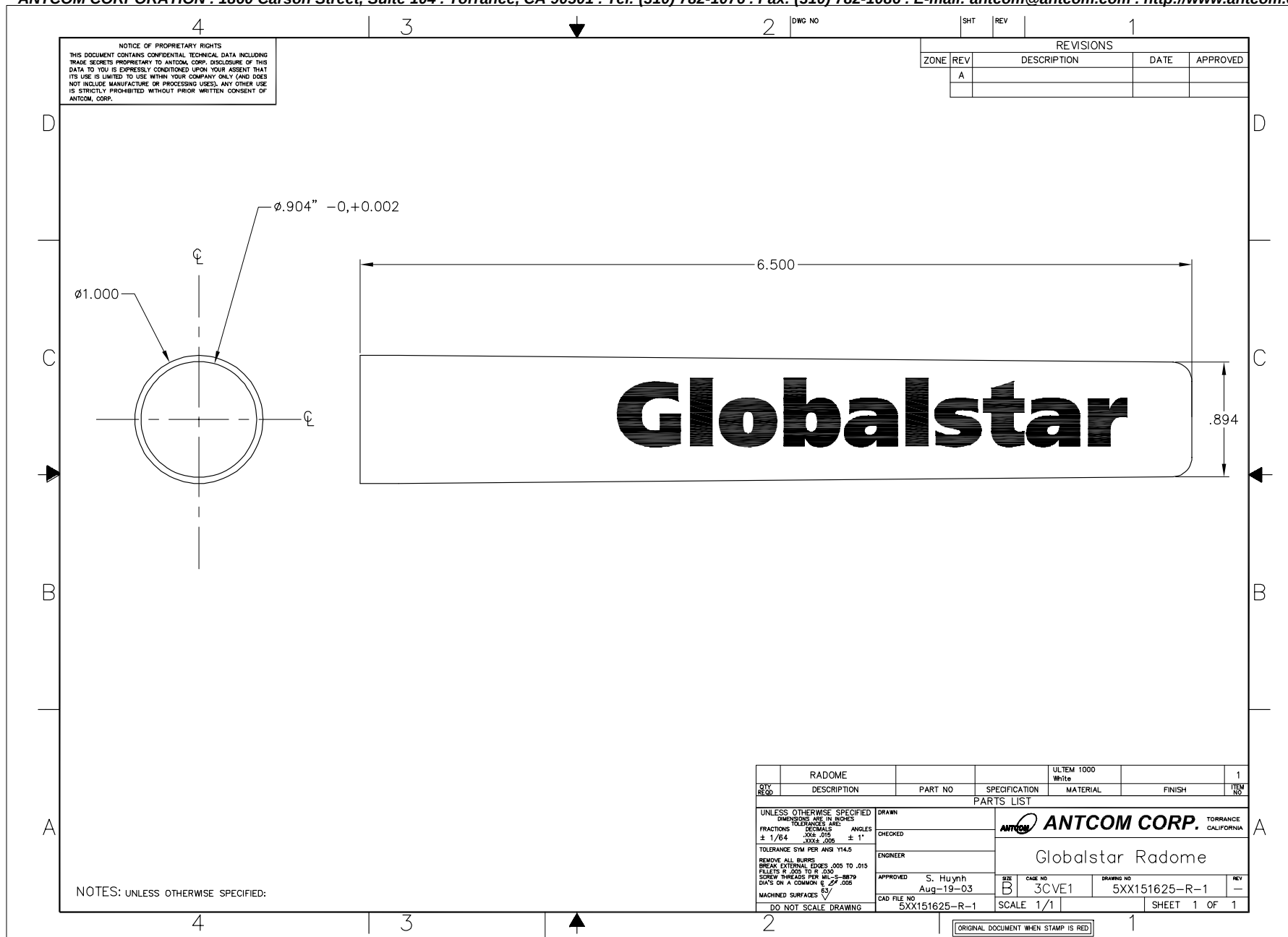


Radome, P/N: 5XX151625-R-1 of

Tx/Rx Globalstar Helix Antenna, P/N: 73G1625LL-A1-XS-1F1



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**Baseplate, P/N: 3G1625A-1-4 (REV A) of
Tx/Rx Globalstar Helix Antenna, P/N: 73G1625LL-A1-XS-1F1**



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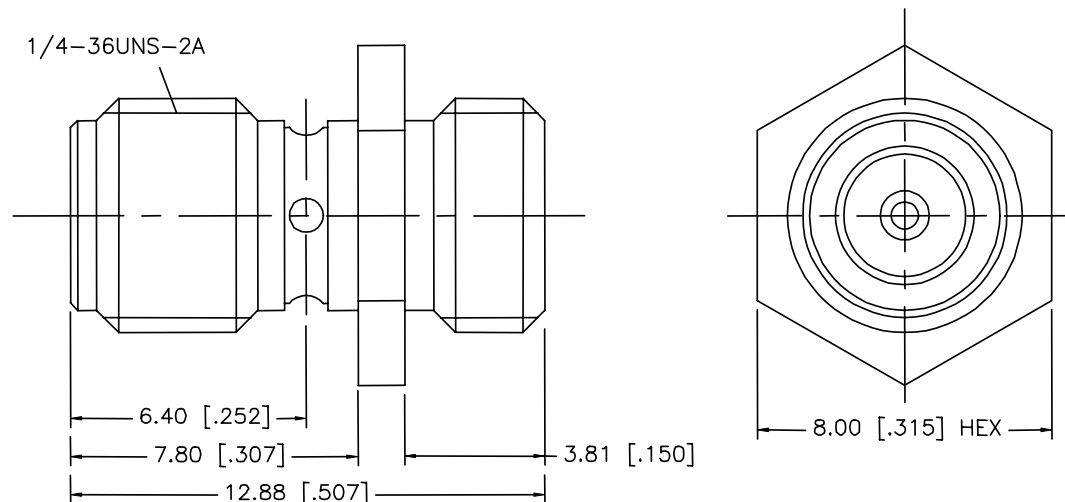


Tx-Connector, P/N: 242129-10 of
Tx/Rx Globalstar Helix Antenna, P/N: 73G1625LL-A1-XS-1F1



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REV.	DATE	DESCRIPTION
NC	08/31/02	INITIAL RELEASE



				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS	APPROVALS	DATE	Amphenol - Connex CONNECTOR CORPORATION						
8					DIMENSIONS IN [] ARE IN INCHES FOR CUSTOMER REFERENCE ONLY	DRAWN					G.R.S.	08/31/02	
7						CHECKED							
6				ISSUED				TITLE	SMA FEMALE TO MCX FEMALE MODIFIED ADAPTOR				
5				UNLESS OTHERWISE SPECIFIED TOLERANCES FOR INCHES ARE: .XXX = ± 0.005" .XX = ± 0.010" .X = ± 0.020"									
4													
3	CONTACT PIN	BER. COPPER	GOLD					SIZE	FSCM NO.	DWG. NO.		REV.	
2	INSULATOR	TEFLON	NATURAL					A	99001	242129-10.DWG		NC	
1	BODY	BRASS	GOLD										
	DESCRIPTION	MATERIAL	FINISH	DO NOT SCALE DRAWING			SCALE	NA	PART NO.	242129-10	SHEET	1 OF 1	

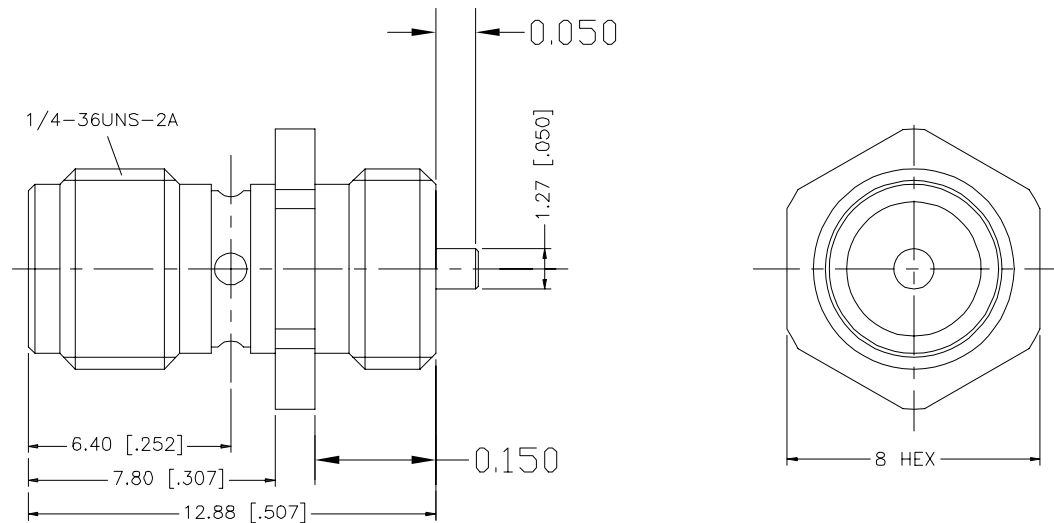


Rx-Connector, P/N: 132363-10 of Tx/Rx Globalstar Helix Antenna, P/N: 73G1625LL-A1-XS-1F1



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REV.	DATE	DESCRIPTION
A	09/16/03	MODIFY CONTACT PIN LENGTH



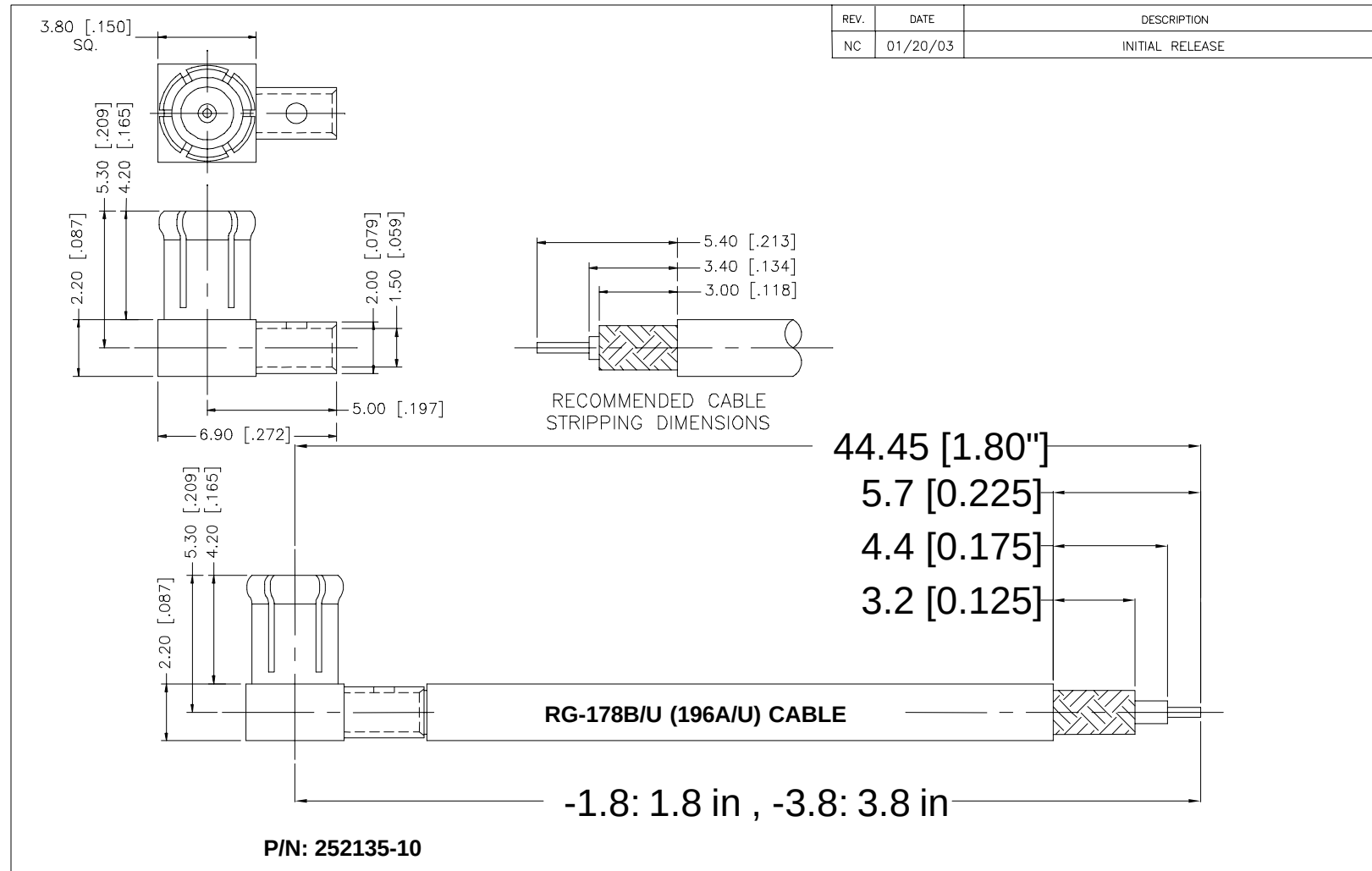
8					UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS. DIMENSIONS IN [] ARE IN INCHES AND FOR CUSTOMER REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED TOLERANCES FOR MILLIMETERS ARE: 0.5 - 8mm ± 0.20mm 8 - 30mm ± 0.40mm 30 - 120mm ± 0.50mm UNLESS OTHERWISE SPECIFIED TOLERANCES FOR INCHES ARE: .020 - .315 = ± 0.007" .315 - 1.180 = ± 0.015" 1.180 - 4.724 = ± 0.020"	APPROVALS	DATE	Amphenol Connex							
7						DRAWN	G.R.S.					09/16/03			
6						CHECKED			PART DESCRIPTION SMA BULKHEAD RECEPTACLE EXTENDED CONTACT 0-.050" / .050" DIA.						
5						ISSUED									
4						SHEET	1 OF 1		PART NO. 132363-10						
3	CONTACT PIN	BER. COPPER	GOLD	1		CAD FILE	C:/132/132363-10.DWG	DWG. NO.					132363-10.DWG	REV.	A
2	INSULATOR	TEFLON	NATURAL	1		DO NOT SCALE DRAWING									
1	BODY	BRASS	GOLD	1											
	DESCRIPTION	MATERIAL	FINISH	QTY											



Tx-Cable, P/N: RG178-MCX-RM-3.8 of Tx/Rx Globalstar Helix Antenna, P/N: 73G1625LL-A1-XS-1F1



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8					UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS. DIMENSIONS IN [] ARE IN INCHES AND FOR CUSTOMER REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED TOLERANCES FOR MILLIMETERS ARE: 0.5 – 8mm ± 0.20mm 8 – 30mm ± 0.40mm 30 – 120mm ± 0.50mm UNLESS OTHERWISE SPECIFIED TOLERANCES FOR INCHES ARE: .020 – .315 = ± 0.007" .315 – 1.180 = ± 0.015" 1.180 – 4.724 = ± 0.020"	APPROVALS	DATE	ANTCOM CORP.							
7						DRAWN	S. Huynh					01/20/03			
6						CHECKED			PART DESCRIPTION LOW PROFILE RIGHT ANGLE MCX MALE PIG TAIL RG-178B/U (196A/U) CABLE						
5						ISSUED									
4						SHEET	1 OF 1		PART NO. RG178-MCX-RM-3.8 (3.8in Right Angle, Soldered, GPS/Globalstar)						
3	CONTACT PIN	BRASS	GOLD	1											
2	INSULATOR	TEFLON	NATURAL	1				PART NO. RG178-MCX-RM-3.8 (3.8in Right Angle, Soldered, GPS/Globalstar)							
1	HOUSING/BODY	BRASS	GOLD	1											
	DESCRIPTION	MATERIAL	FINISH	QTY	DO NOT SCALE DRAWING	CAD FILE	RG178-MCX-RM-3.8	DWG. NO.	RG178-MCX-RM-3.8	REV.	NC	SIZE	A	SCALE	NA

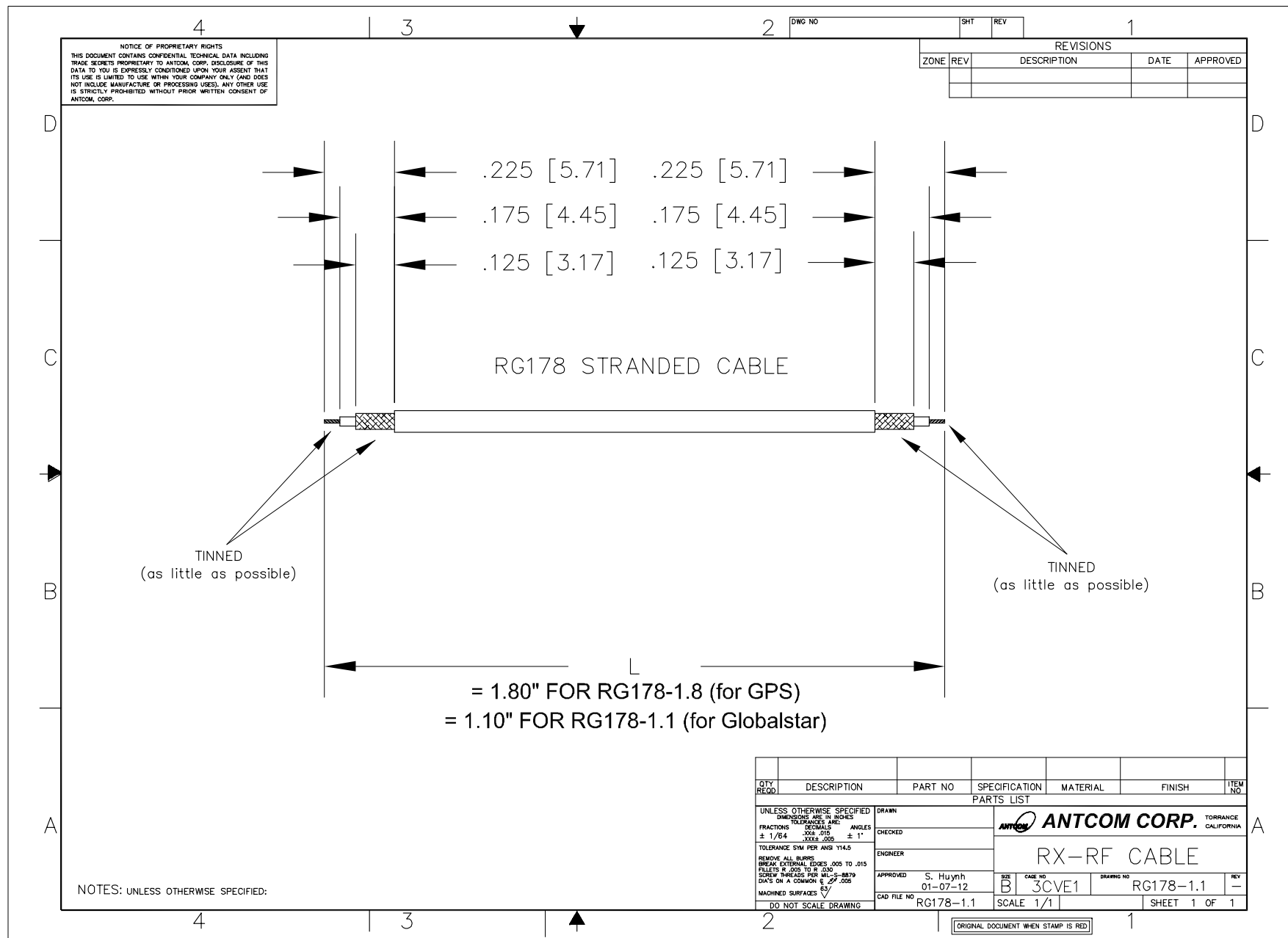


Rx-Cable, P/N: RG178-1.1 of

Tx/Rx Globalstar Helix Antenna, P/N: 73G1625LL-A1-XS-1F1



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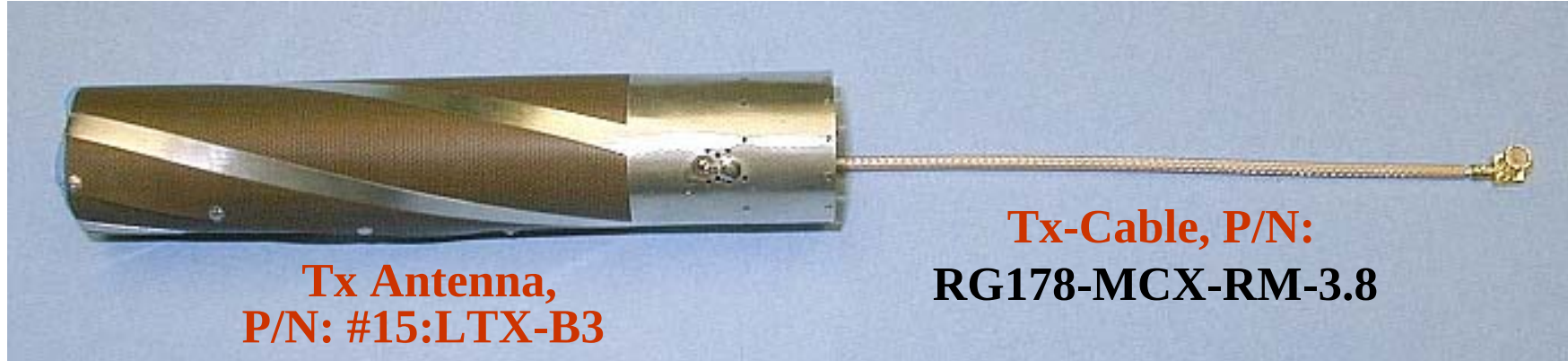




**Tx and Rx Helix Antennas, PN: #15:LTX-B3, #5:LRX-G3 of
Tx/Rx Globalstar Helix Antenna, P/N: 73G1625LL-A1-XS-1F1**

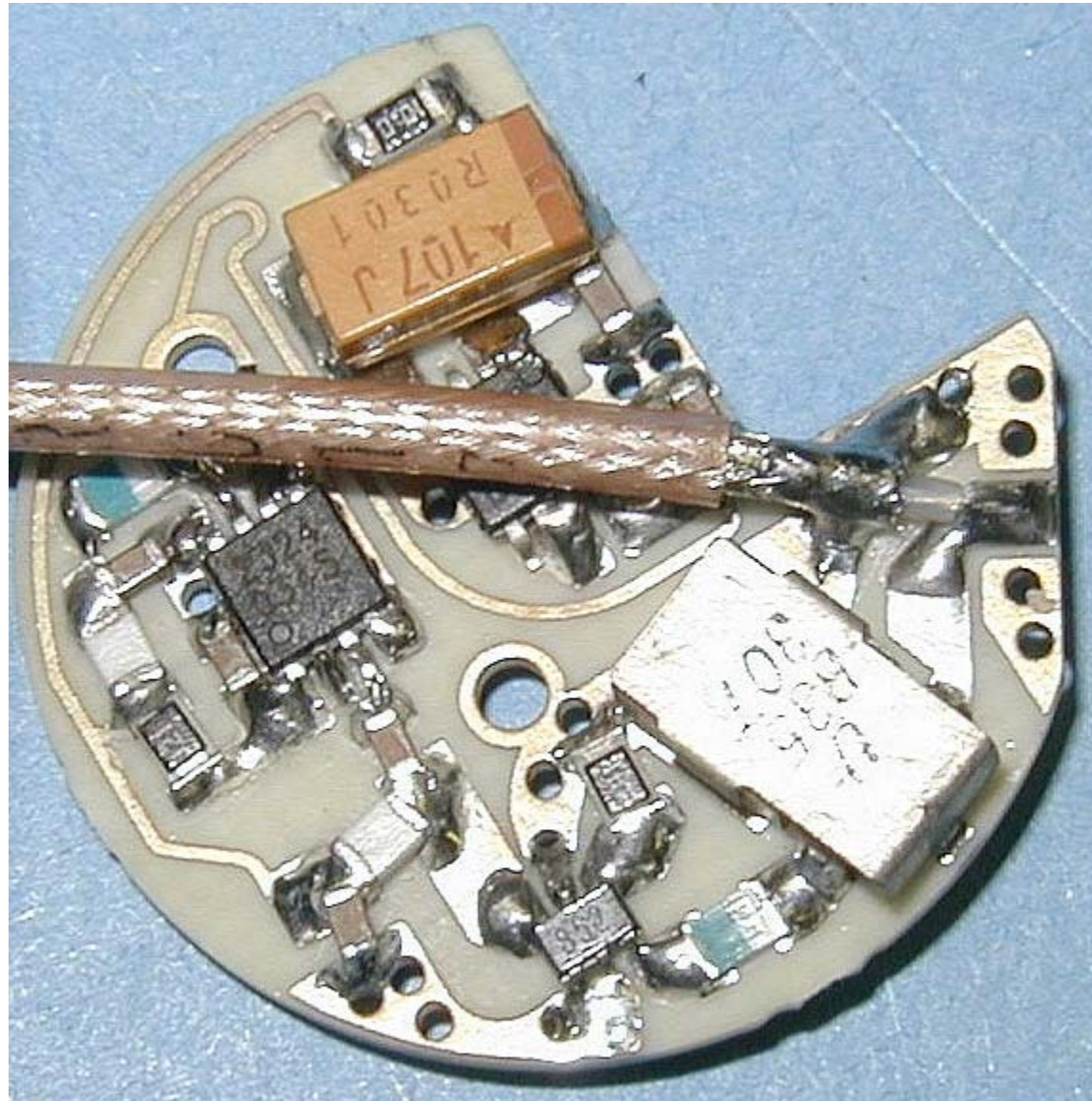


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**Amplifier Board, P/N: 73G1625LL-A1-XS-1F1-A of
Tx/Rx Globalstar Helix Antenna, P/N: 73G1625LL-A1-XS-1F1**

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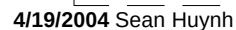
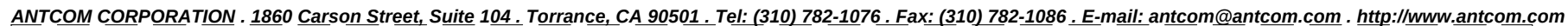
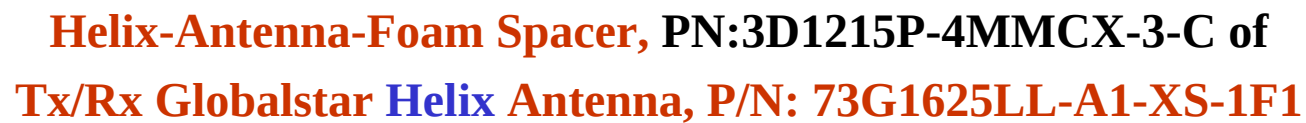


**Helix-Antenna-Foam Spacer, PN:3D1215P-4MMCX-3-C of
Tx/Rx Globalstar Helix Antenna, P/N: 73G1625LL-A1-XS-1F1**



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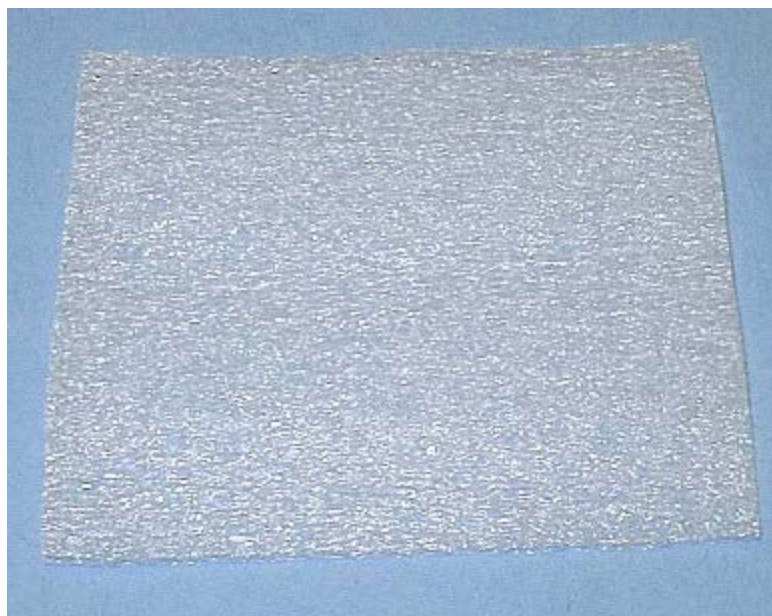




Helix-Antenna-Wrapper Foam, PN:3D1215P-4MMCX-3-S of Tx/Rx Globalstar Helix Antenna, P/N: 73G1625LL-A1-XS-1F1



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[illegible]



All Parts of,
Tx/Rx Globalstar Helix Antenna, P/N: 73G1625LL-A1-XS-1F1



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Assembly Process of

Tx/Rx Globalstar Helix Antenna, P/N: 73G1625LL-A1-XS-1F1



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Tx/Rx Globalstar Helix Antenna,
P/N: 73G1625LL-A1-XS-1F1,
Radiation Pattern

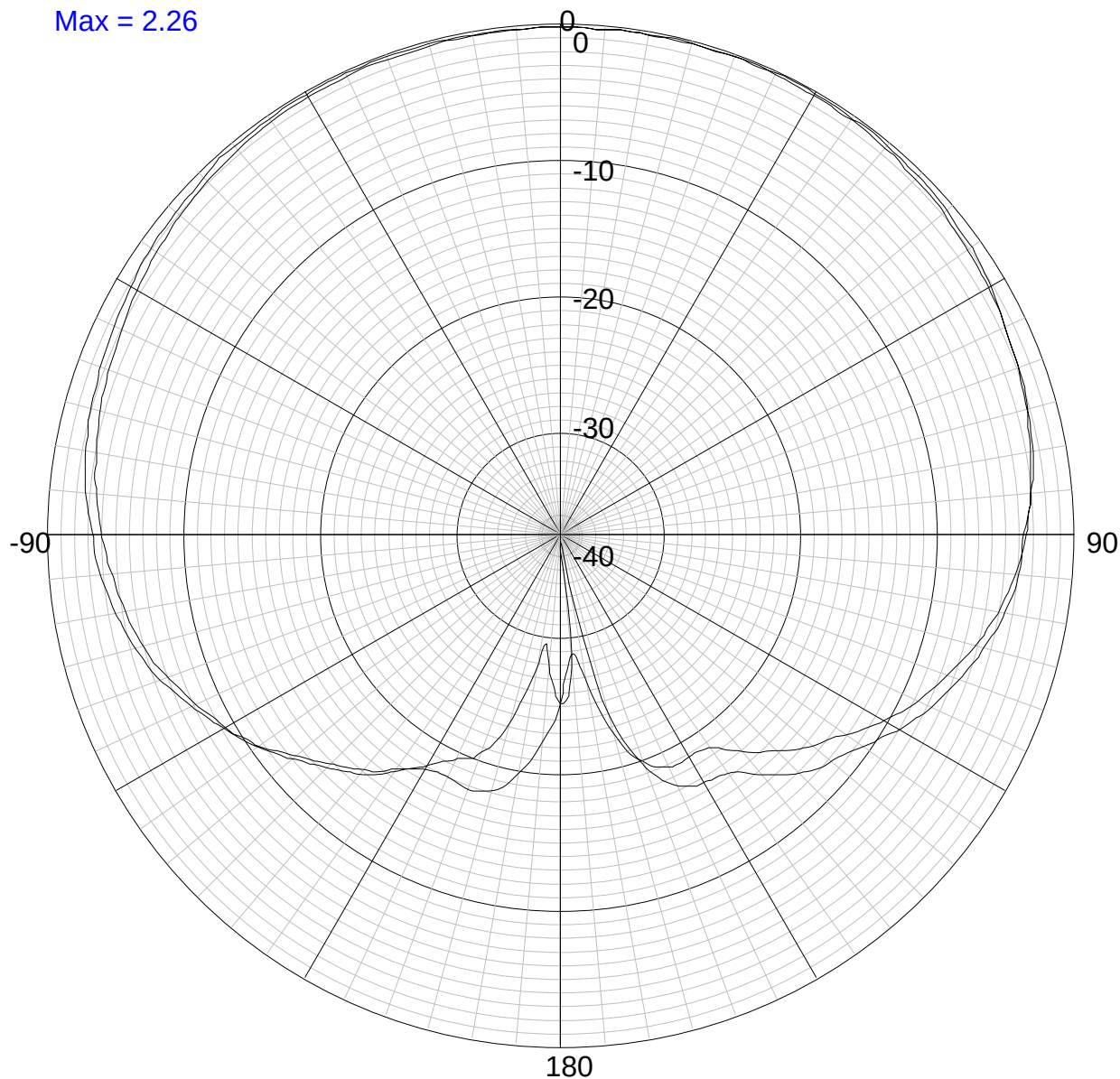


Tx/Rx Globalstar Helix Antenna:
P/N: 7XG1625LL-A1-XS-1F1, Elevation Cuts for Tx Band



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Max = 2.26



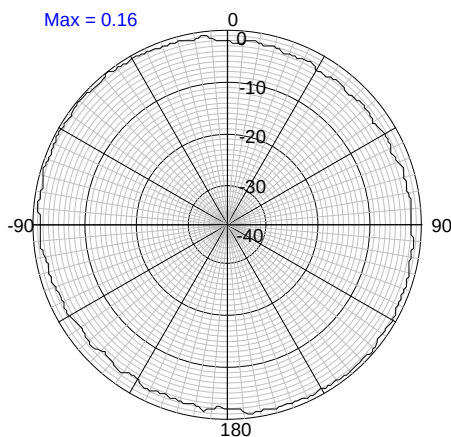


Tx/Rx Globalstar Helix Antenna: P/N: 7XG1625LL-A1-XS-1F1, Azimuth Cuts for Tx Band

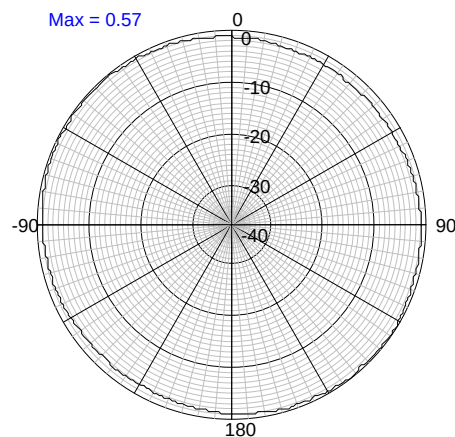


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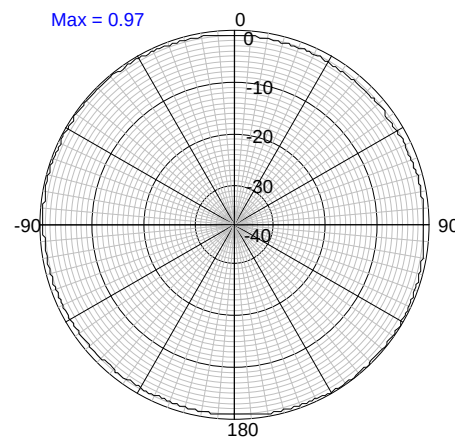
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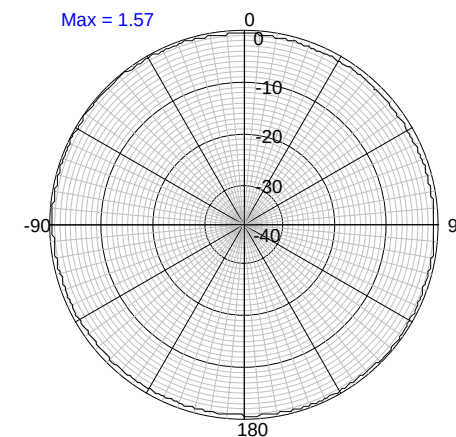
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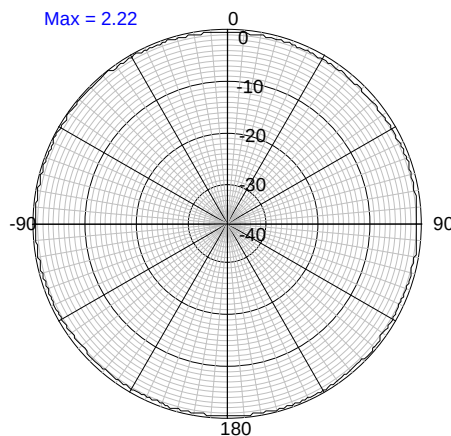
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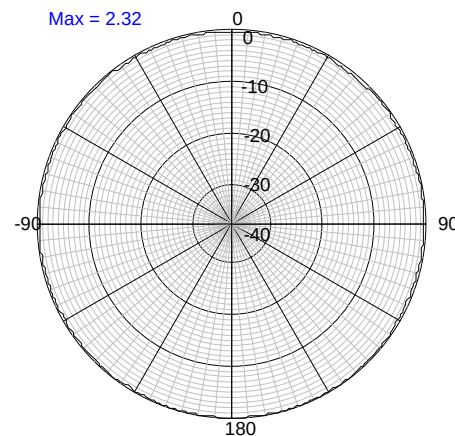
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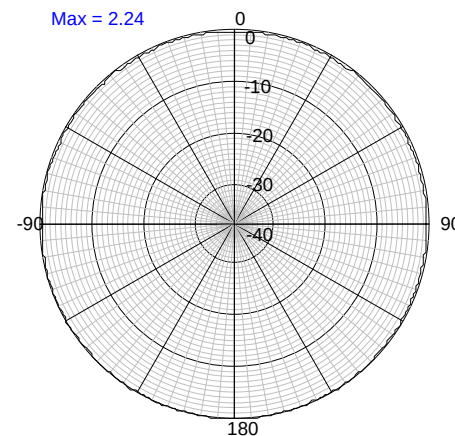
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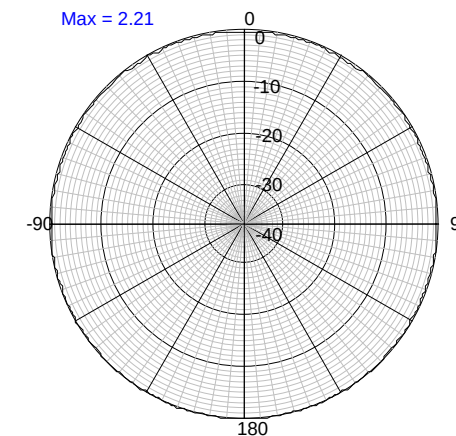
El = 60 deg



El = 70 deg



El = 80 deg



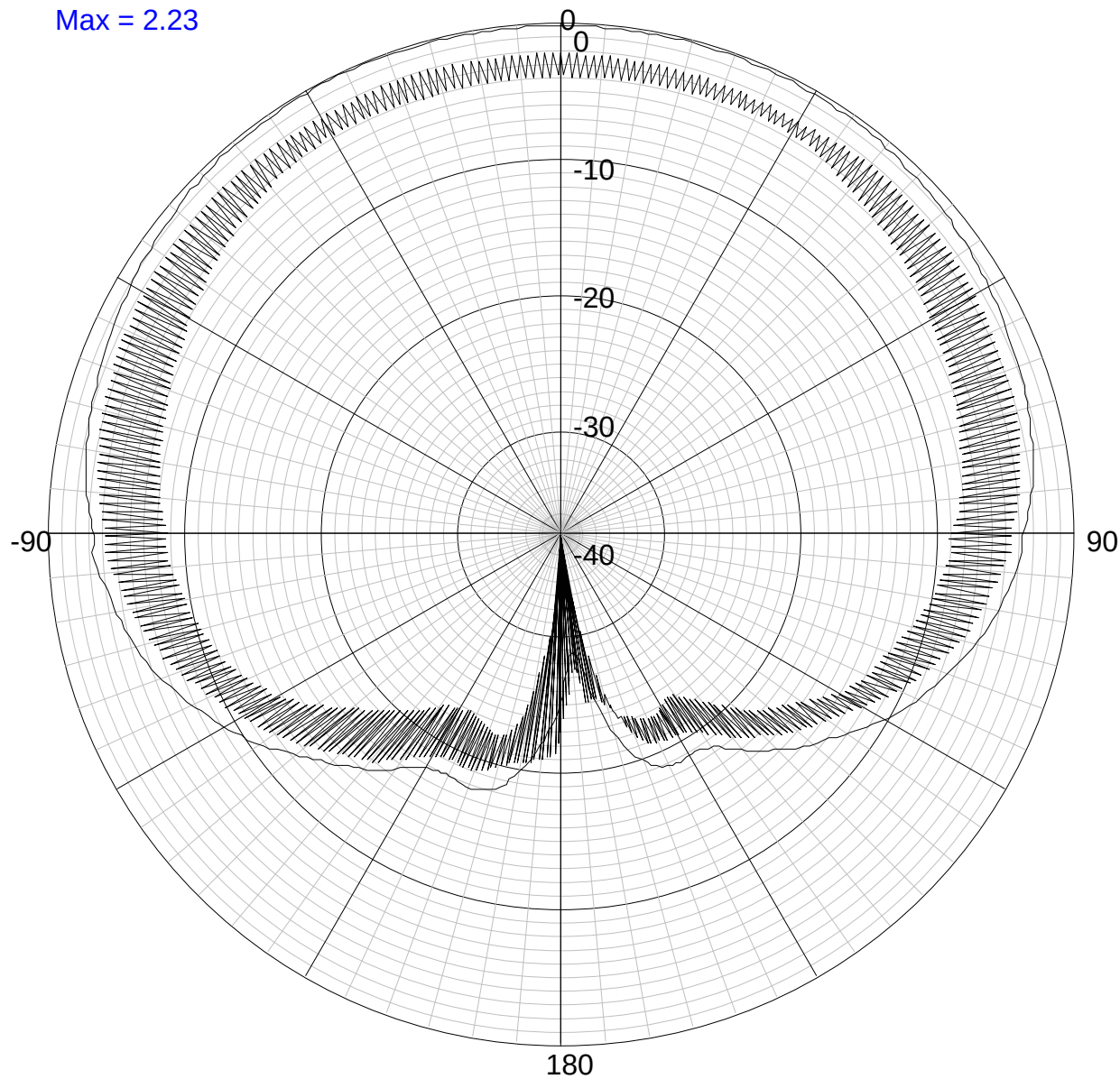


Tx/Rx Globalstar Helix Antenna:
P/N: 7XG1625LL-A1-XS-1F1, Axial Ratio Cuts for Tx Band



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Max = 2.23



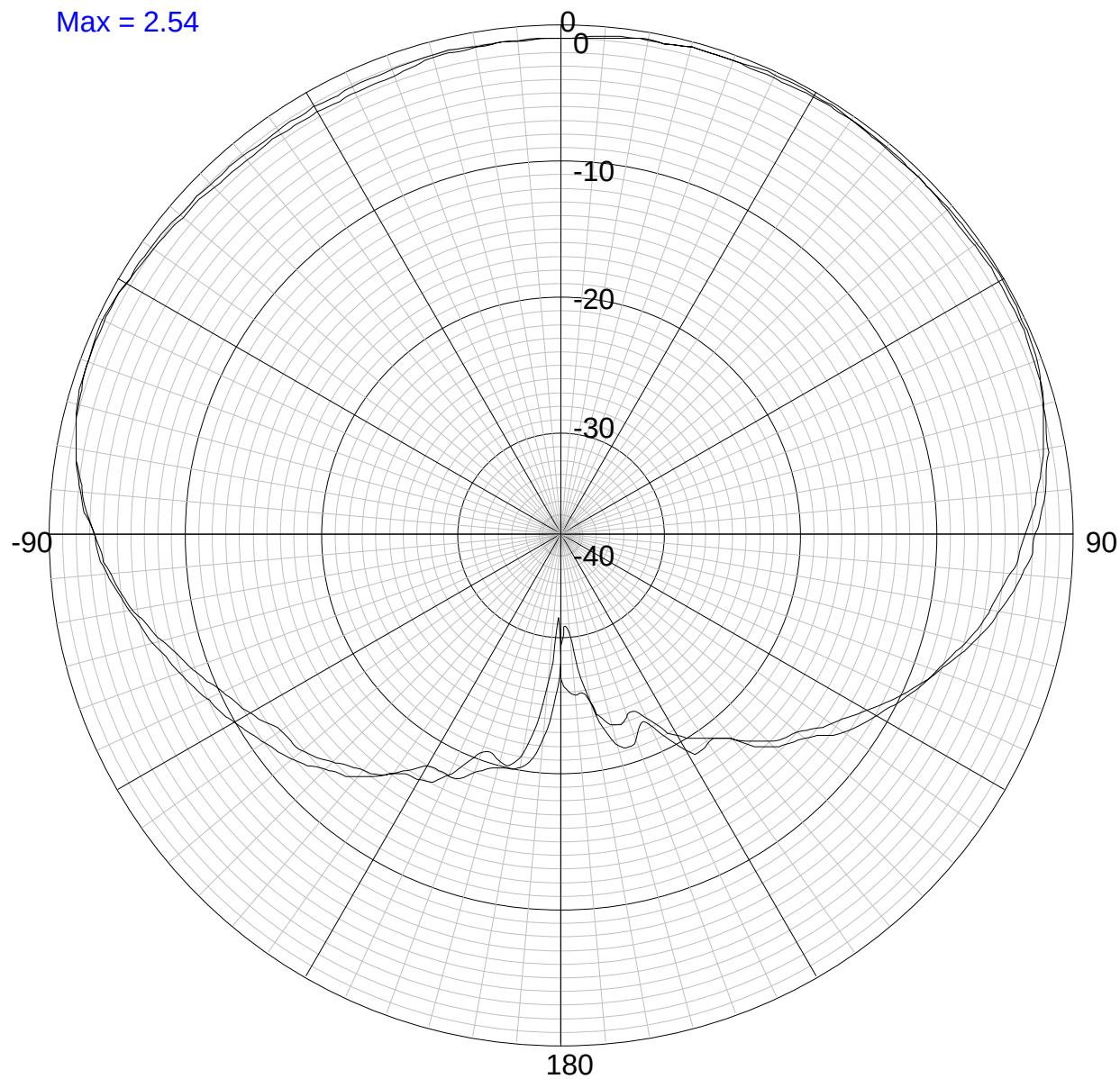


Tx/Rx Globalstar Helix Antenna:
P/N: 7XG1625LL-A1-XS-1F1, Elevation Cuts for Rx Band



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Max = 2.54



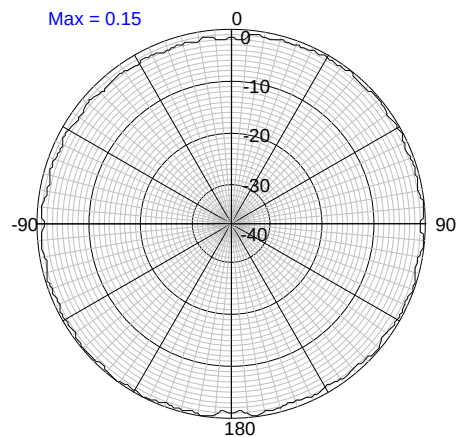


Active or Passive Tx/Rx Globalstar Antenna: P/N: 73G1625LL-A1/P-XS-1F1, Azimuth Cuts for Rx Band

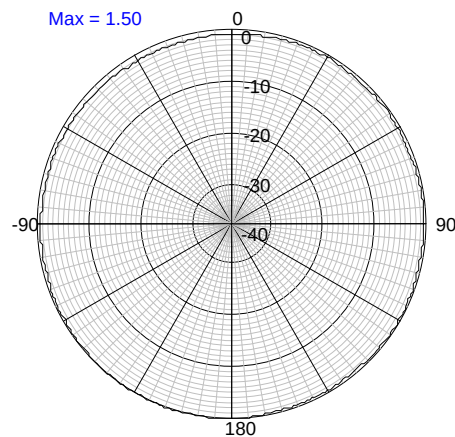


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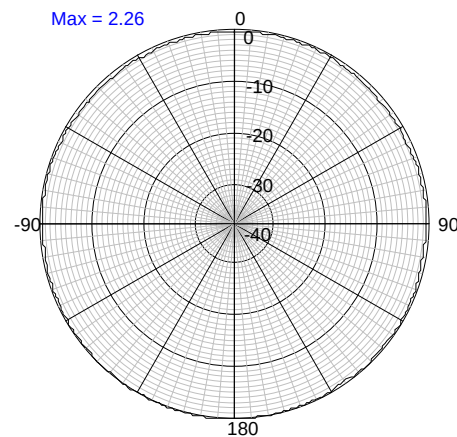
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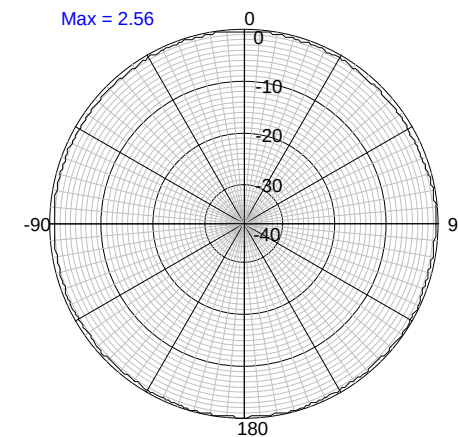
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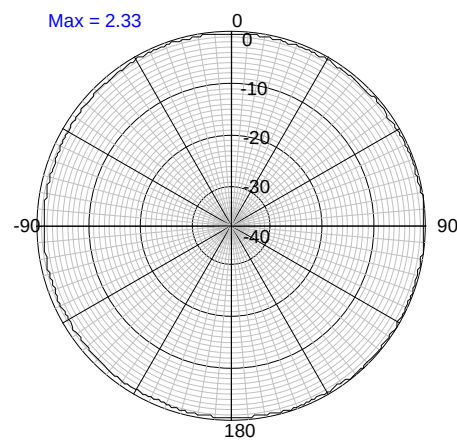
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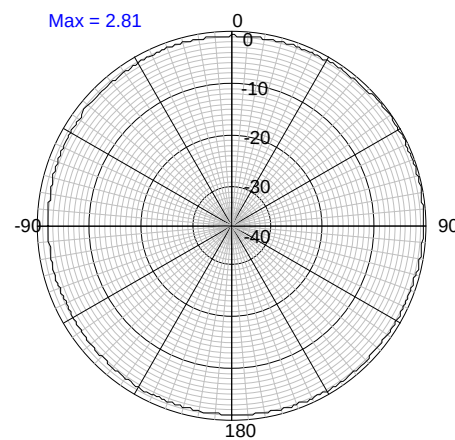
El = 30 deg



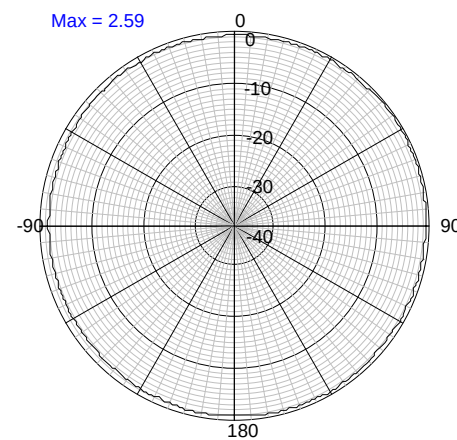
El = 45 deg



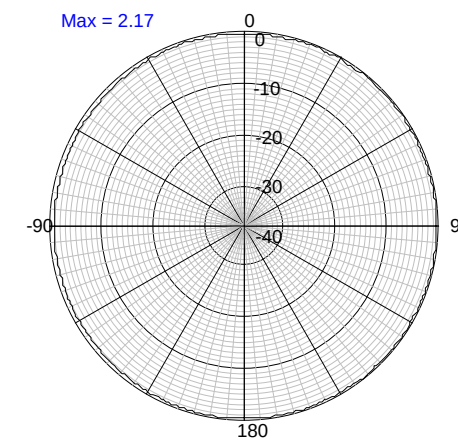
El = 60 deg



El = 70 deg



El = 80 deg

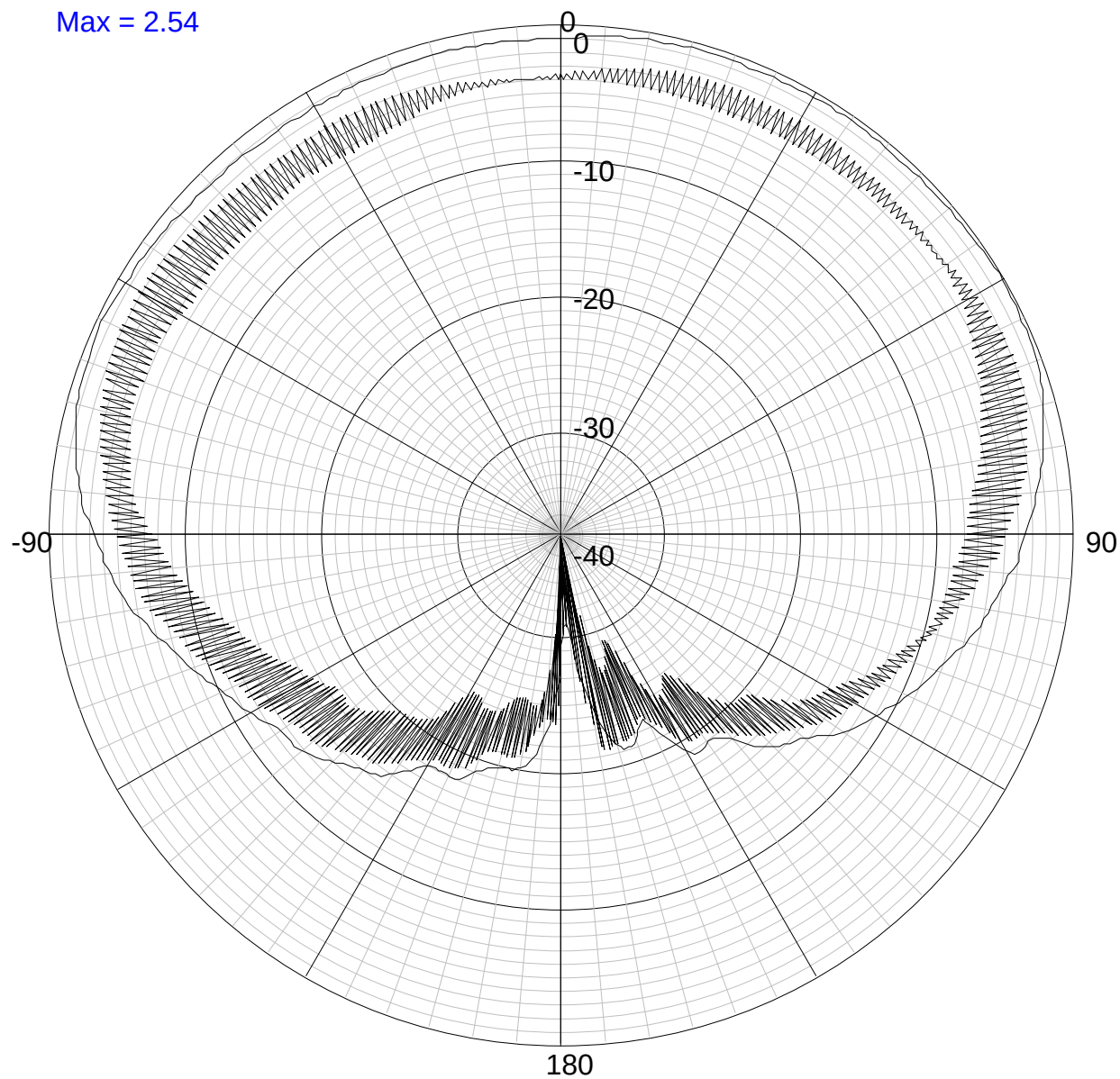




Tx/Rx Globalstar Helix Antenna:
P/N: 7XG1625LL-A1-XS-1F1, Axial Ratio Cuts for Rx Band



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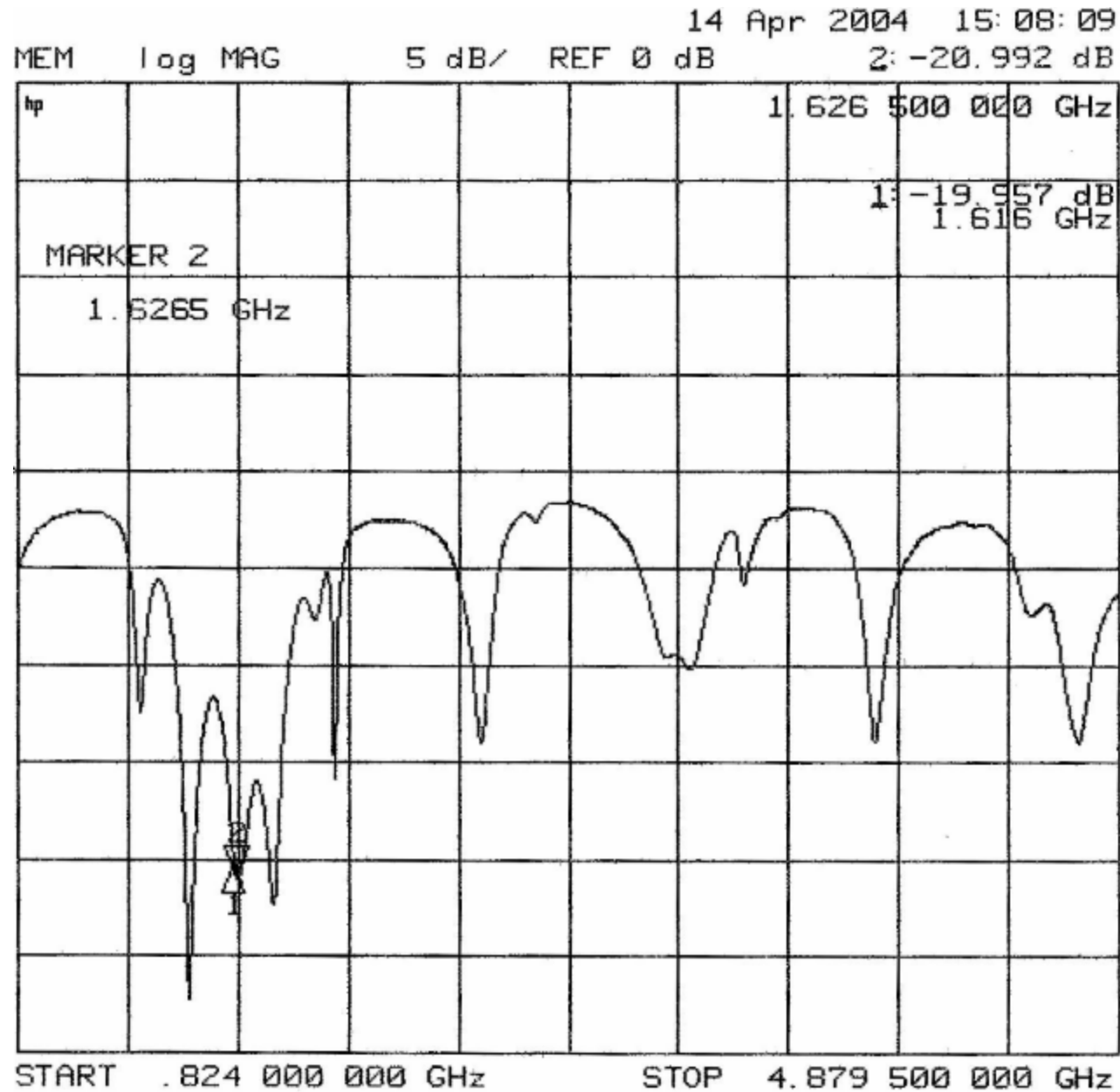
Tx/Rx Globalstar Helix Antenna,
P/N: 73G1625LL-A1-XS-1F1,
Return Loss, and Isolation of Tx/Rx Band
without LNA (Passive) & with LNA (Active)



Tx/Rx Globalstar Helix Antennas: Passive Tx return Loss, S/N:2
P/N: 73G1625LL-A1-XS-1F1



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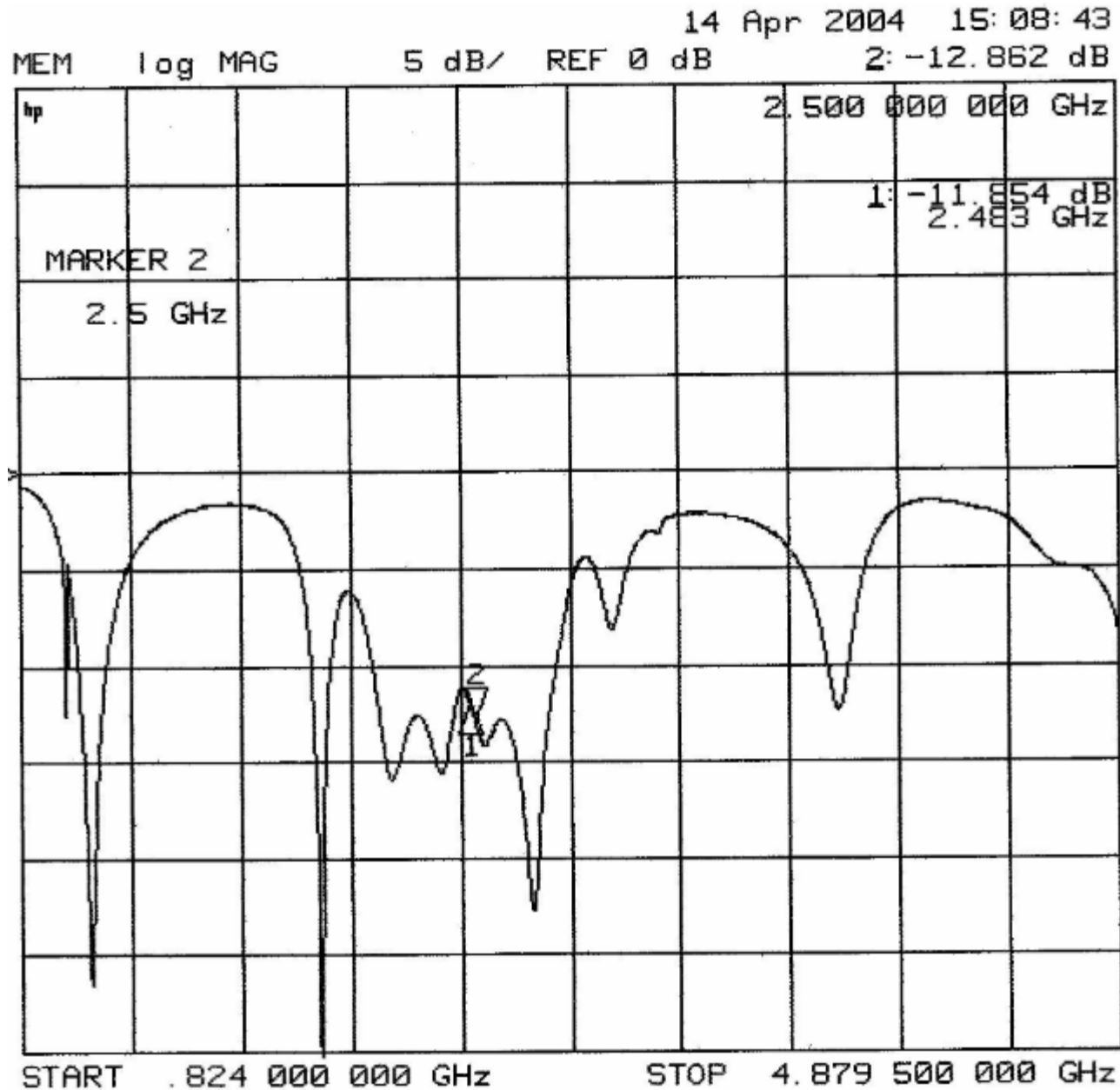


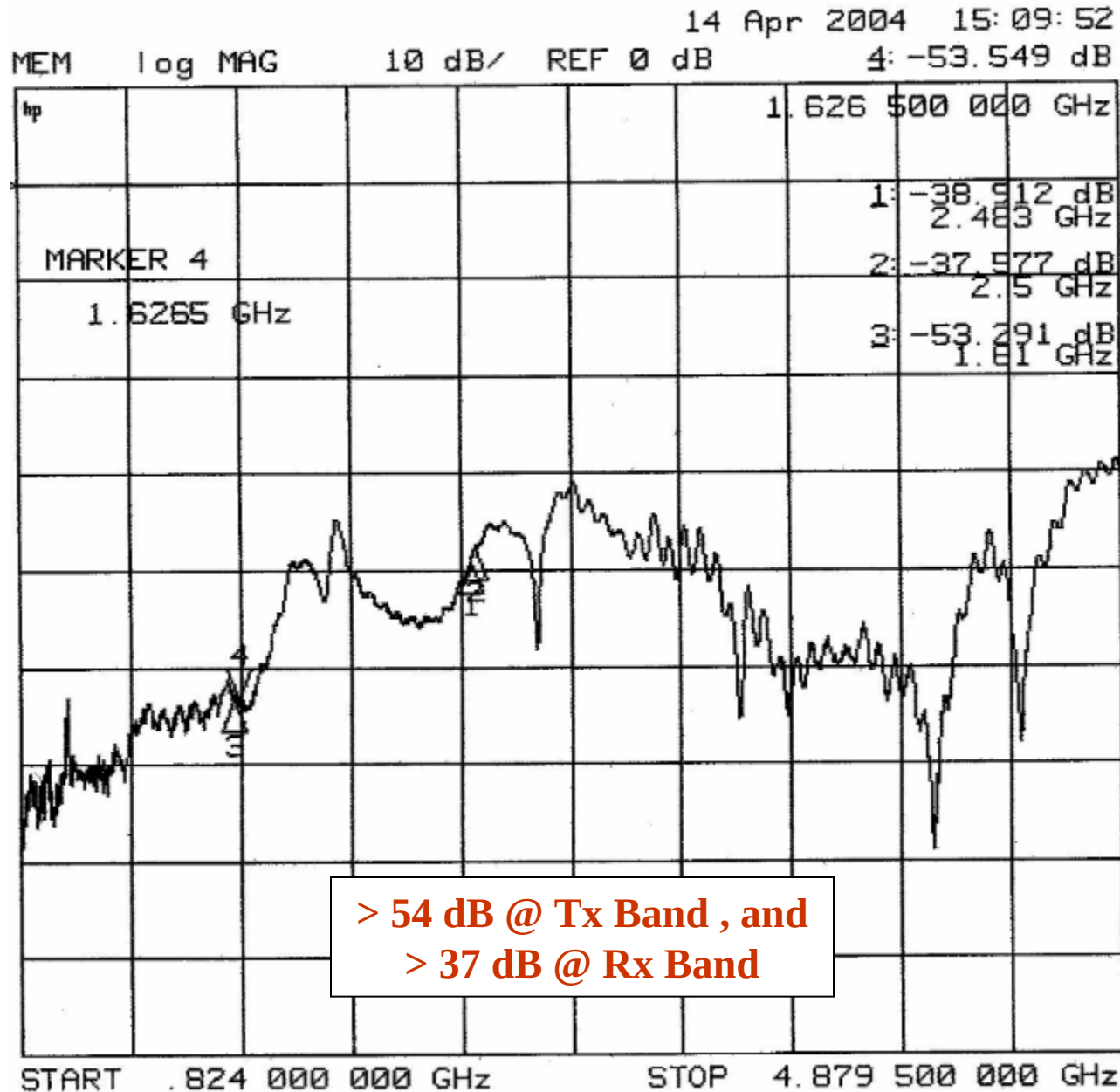


Tx/Rx Globalstar Helix Antennas: Passive Rx Return Loss, S/N:2 P/N: 73G1625LL-A1-XS-1F1



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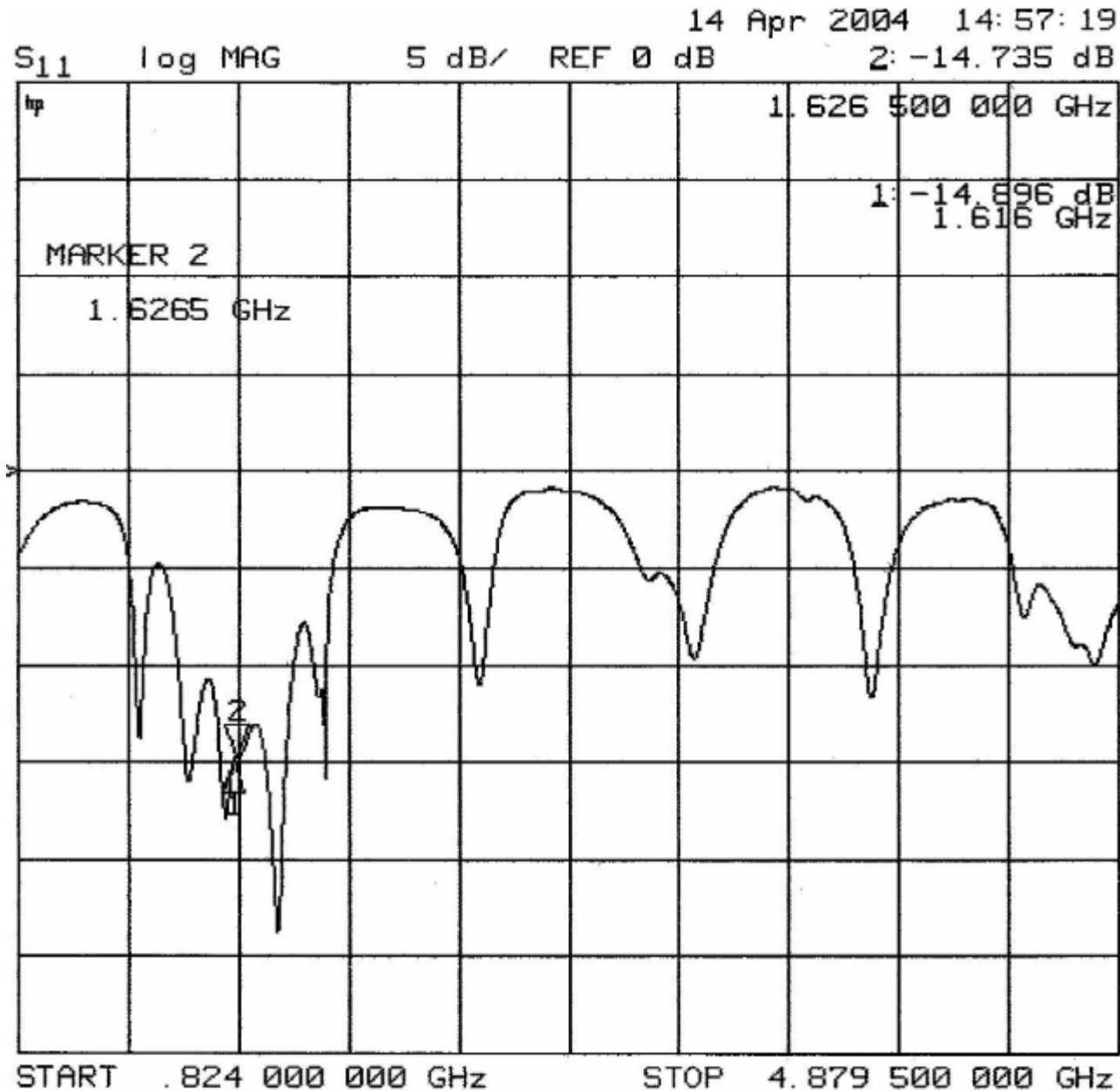




Tx/Rx Globalstar Helix Antennas: Active Tx Return Loss, S/N: Nickel
P/N: 73G1625LL-A1-XS-1F1



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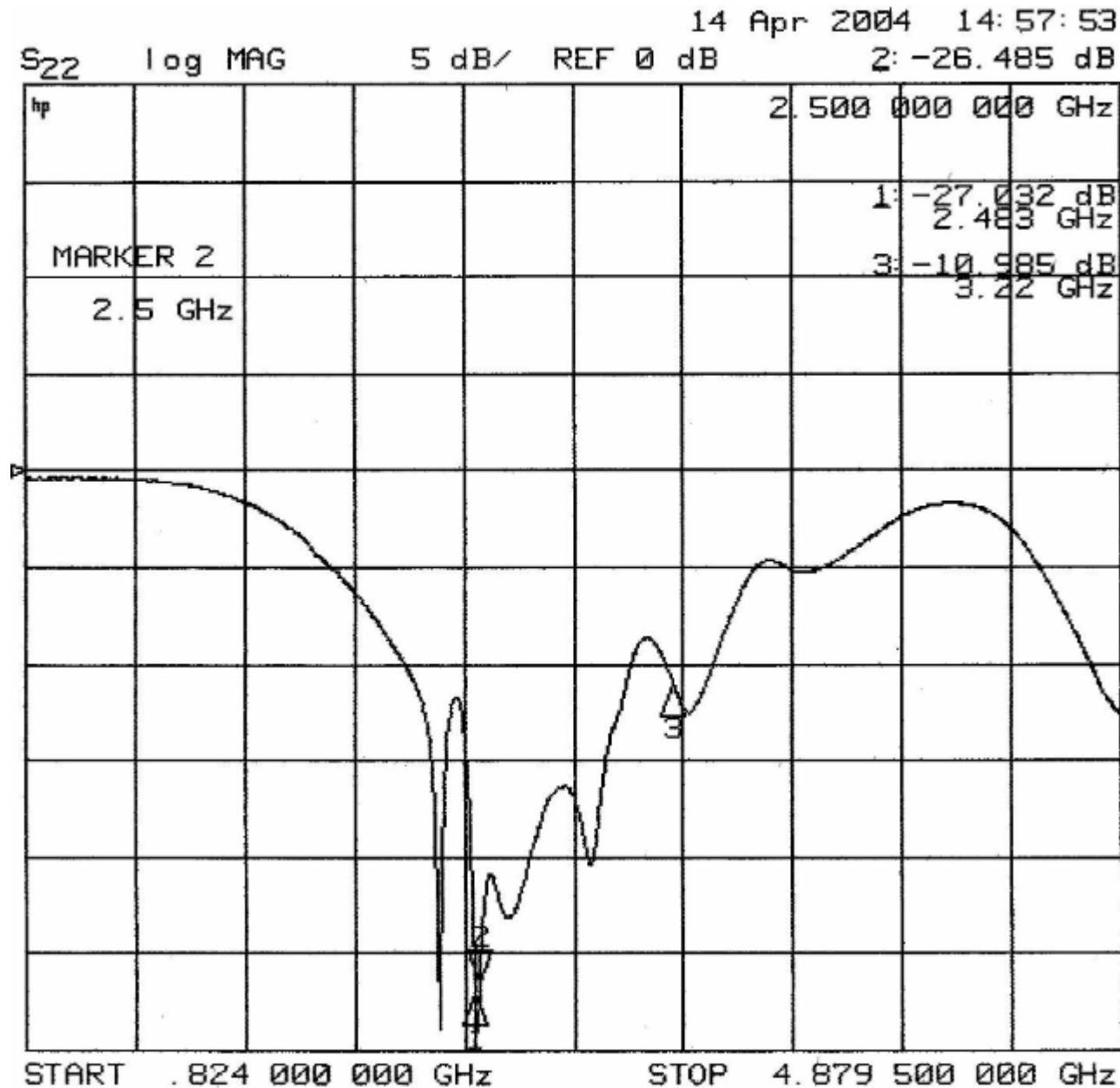


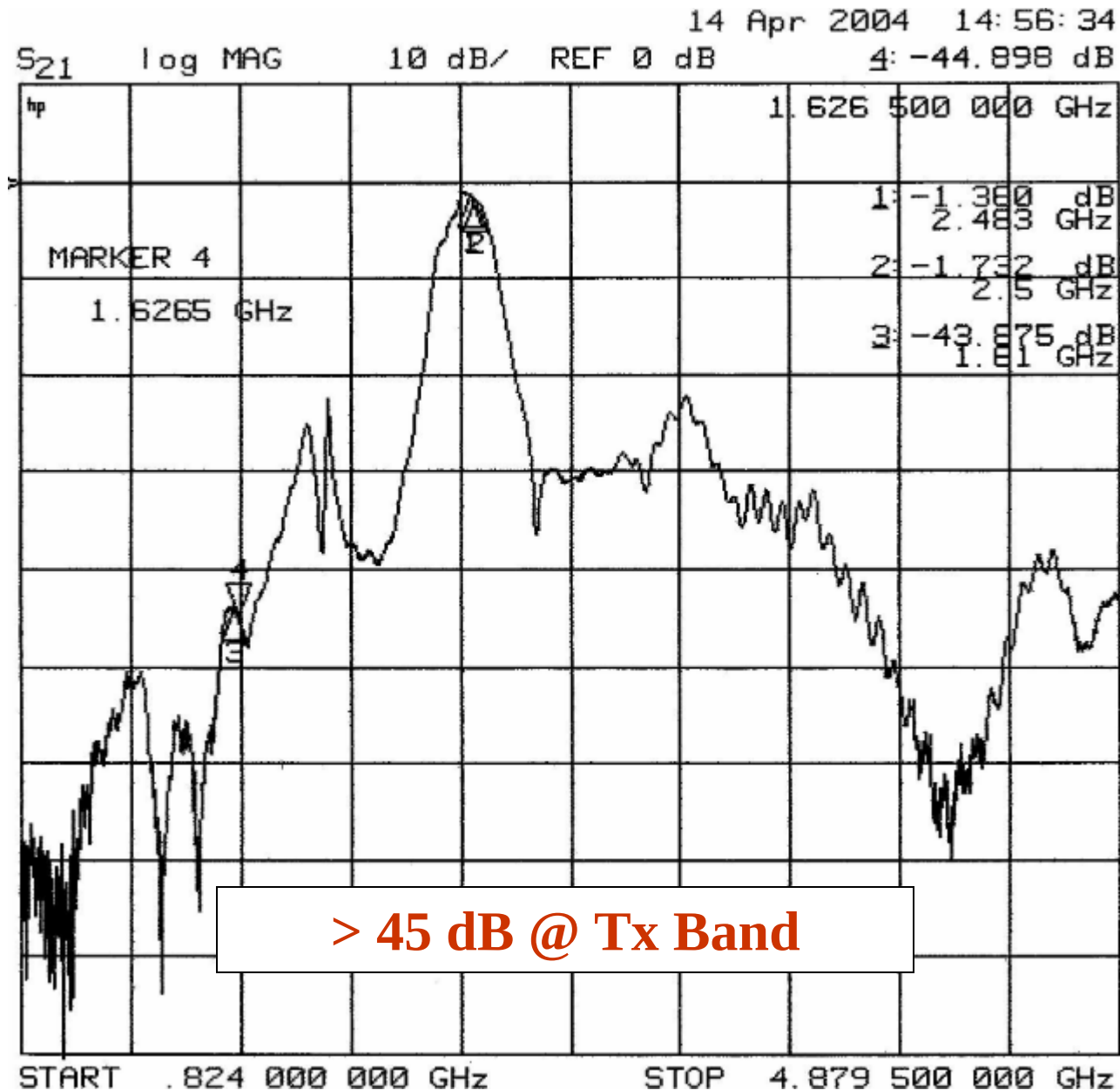


Tx/Rx Globalstar Helix Antennas: Active Rx Return Loss, S/N: Nickel
P/N: 73G1625LL-A1-XS-1F1



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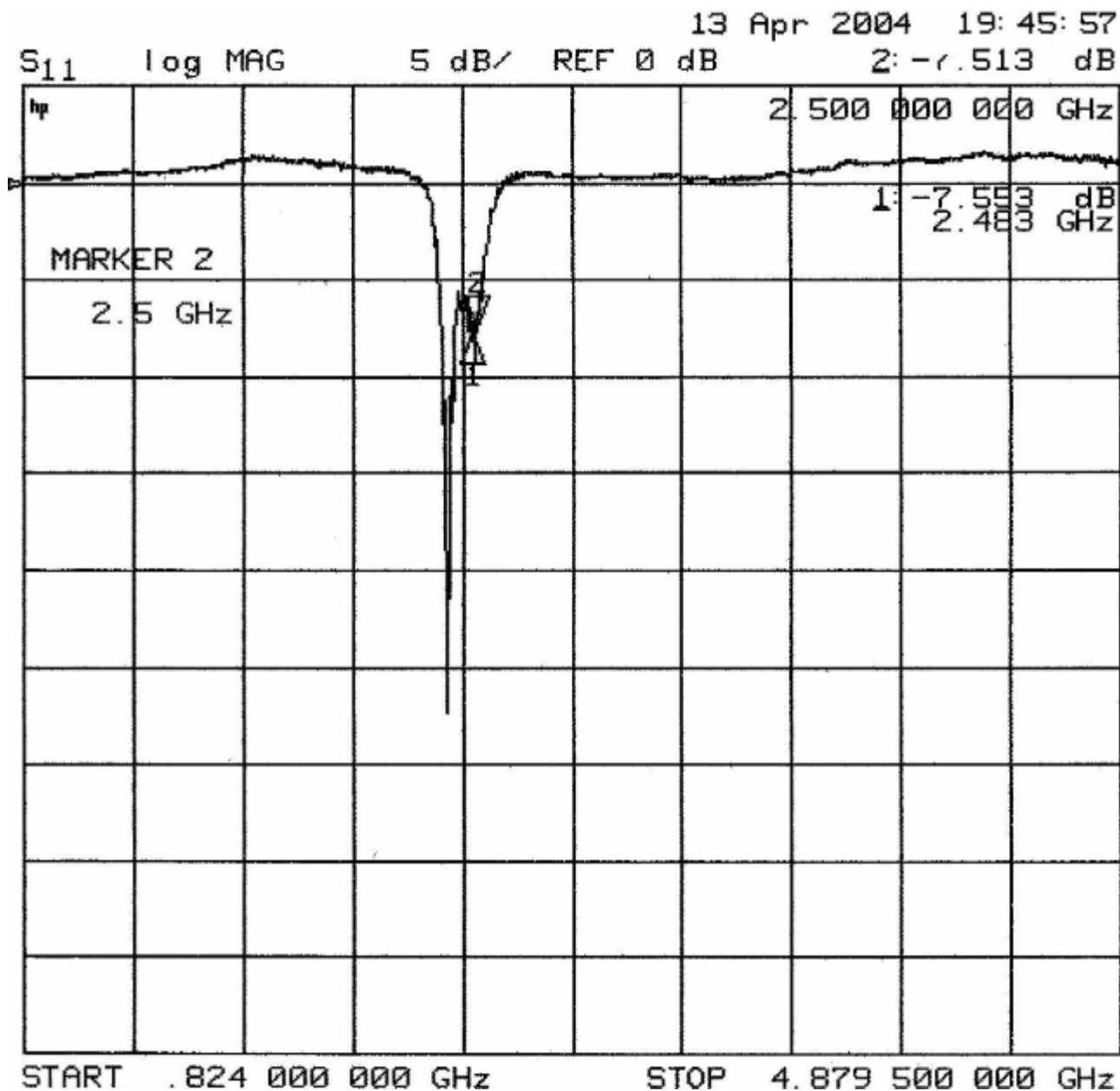
Tx/Rx Globalstar Helix Antenna,
P/N: 73G1625LL-A1-XS-1F1,
Amplifier/Filter Performance:
(Input/Output Return Loss, Gain and Rejection
@ Room Temperature, -65C, and +85C

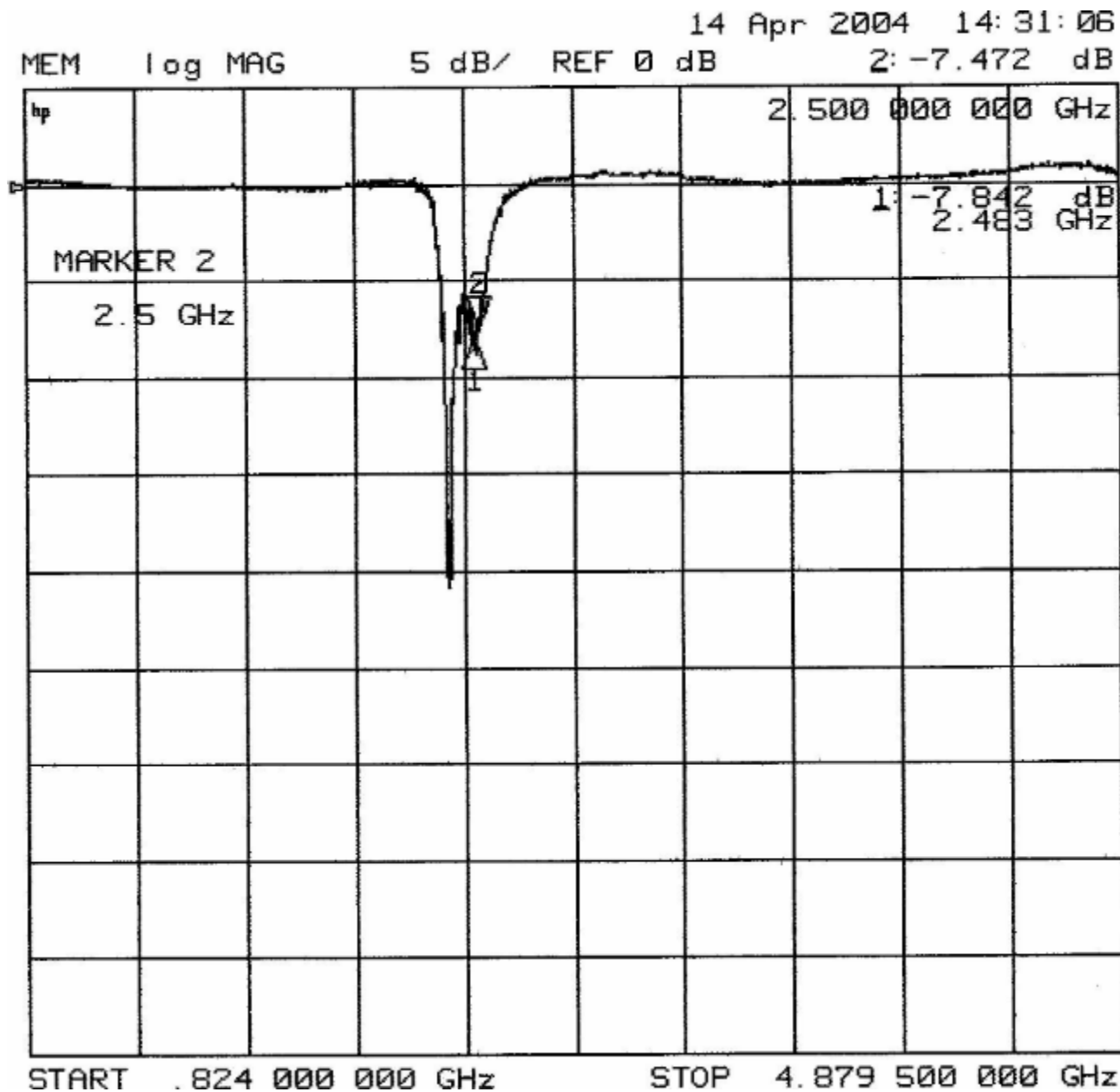


Tx/Rx Globalstar Helix Antennas: Amp. Input Return Loss @ Room Temp.
P/N: 73G1625LL-A1-XS-1F1



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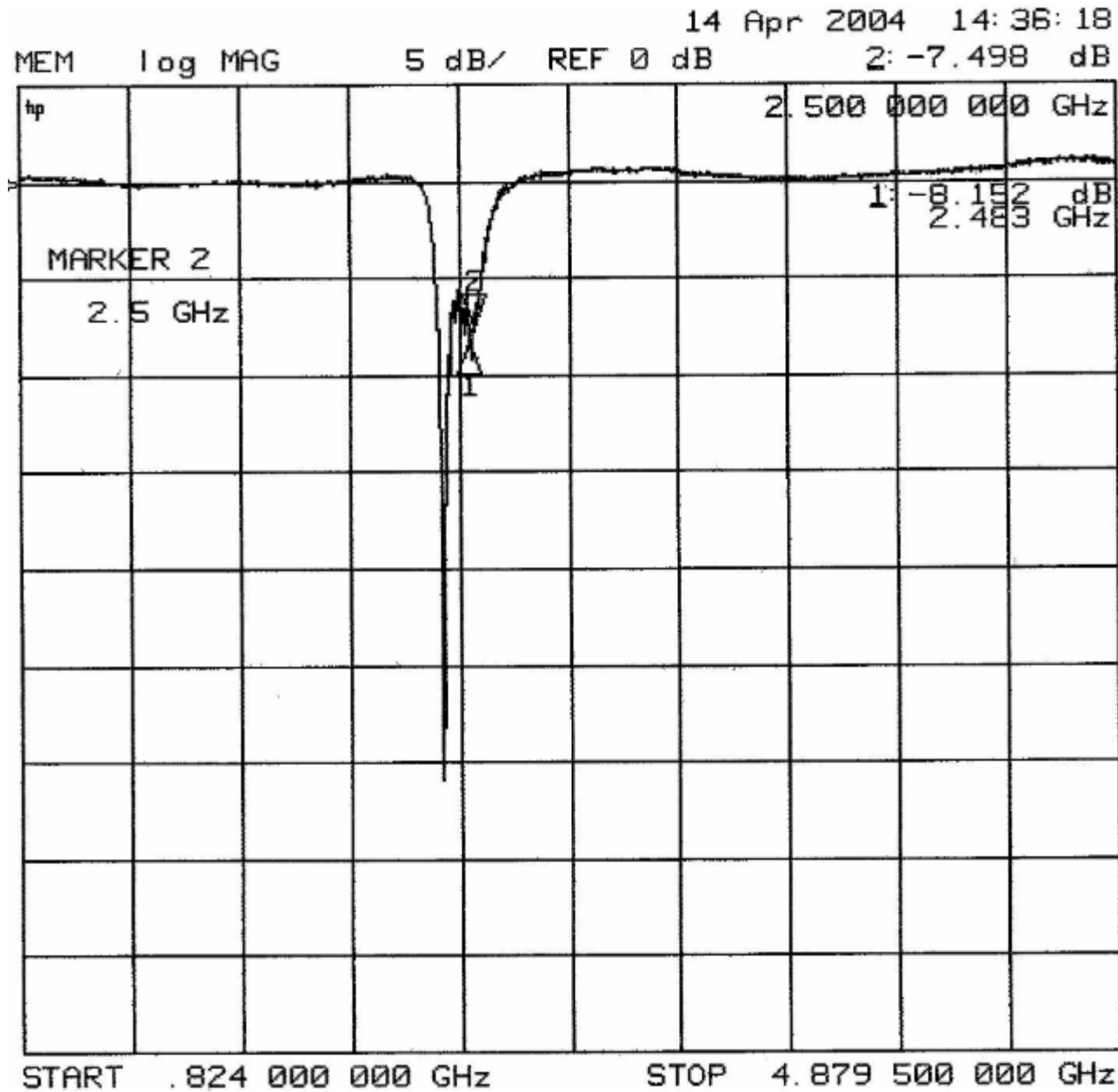


Tx/Rx Globalstar Helix Antennas: Amp. Input Return Loss @ +85C

P/N: 73G1625LL-A1-XS-1F1



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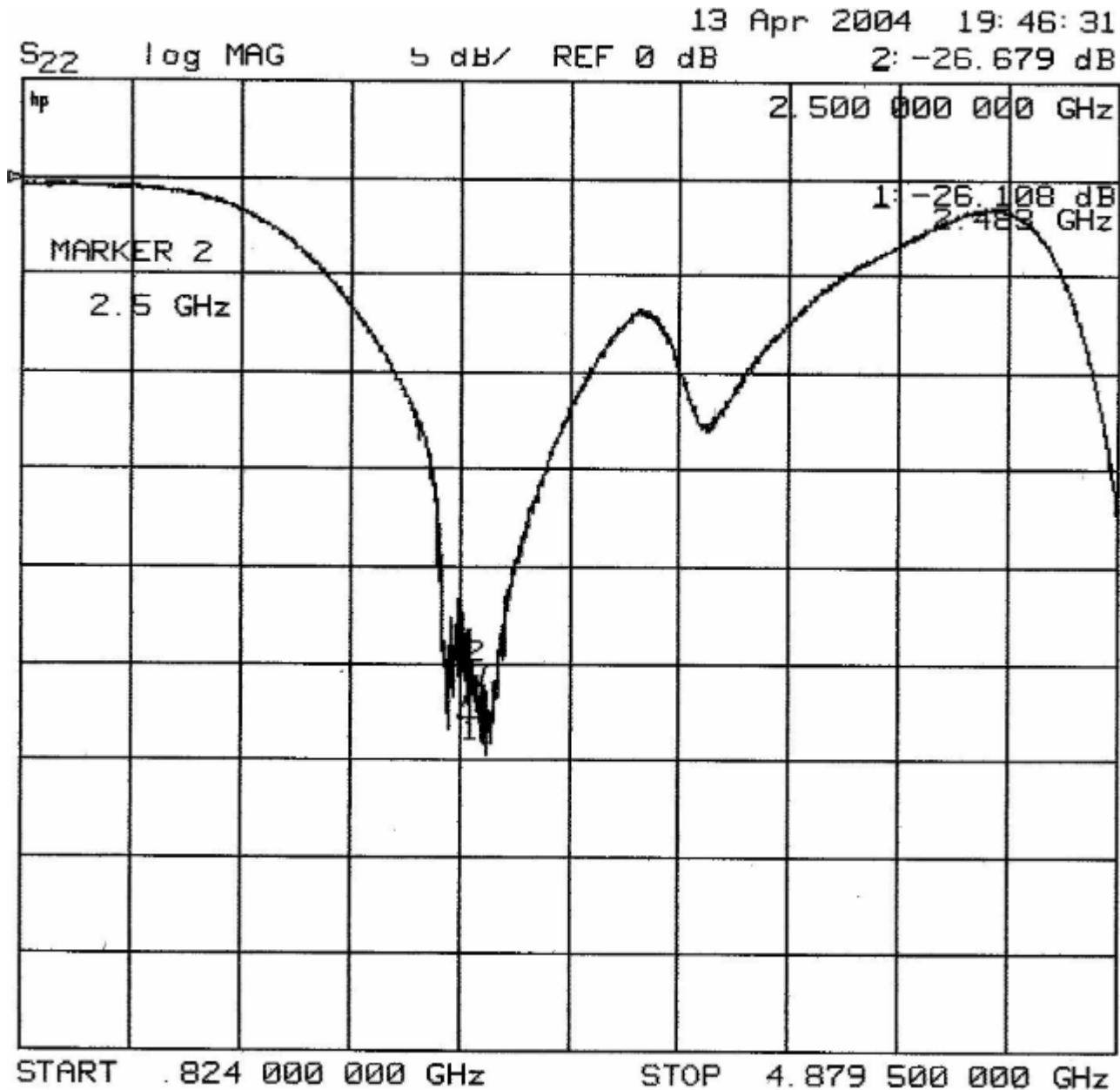




Tx/Rx Globalstar Helix Antennas: Amp. Output Return Loss @ Room Temp.
P/N: 73G1625LL-A1-XS-1F1



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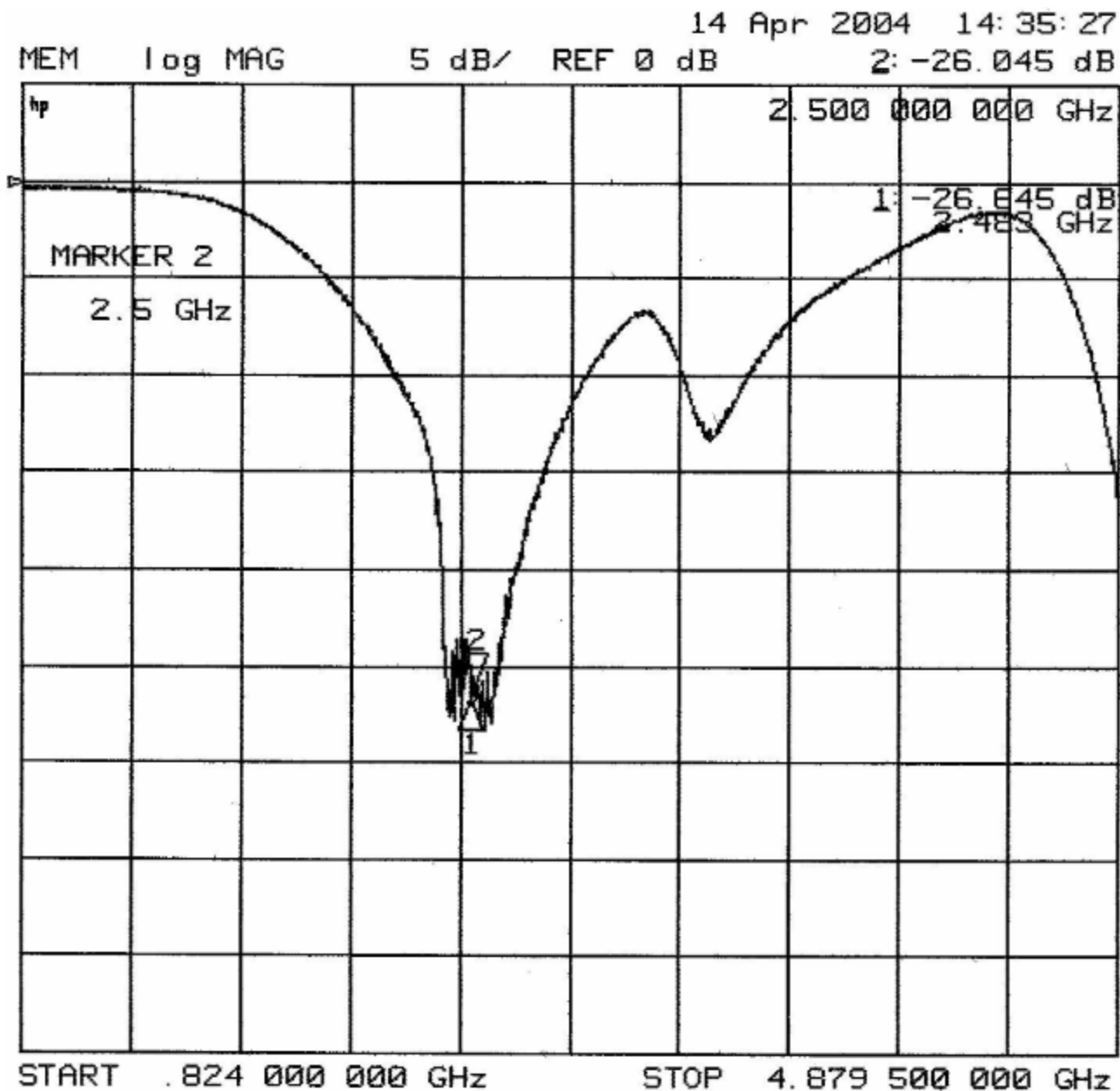


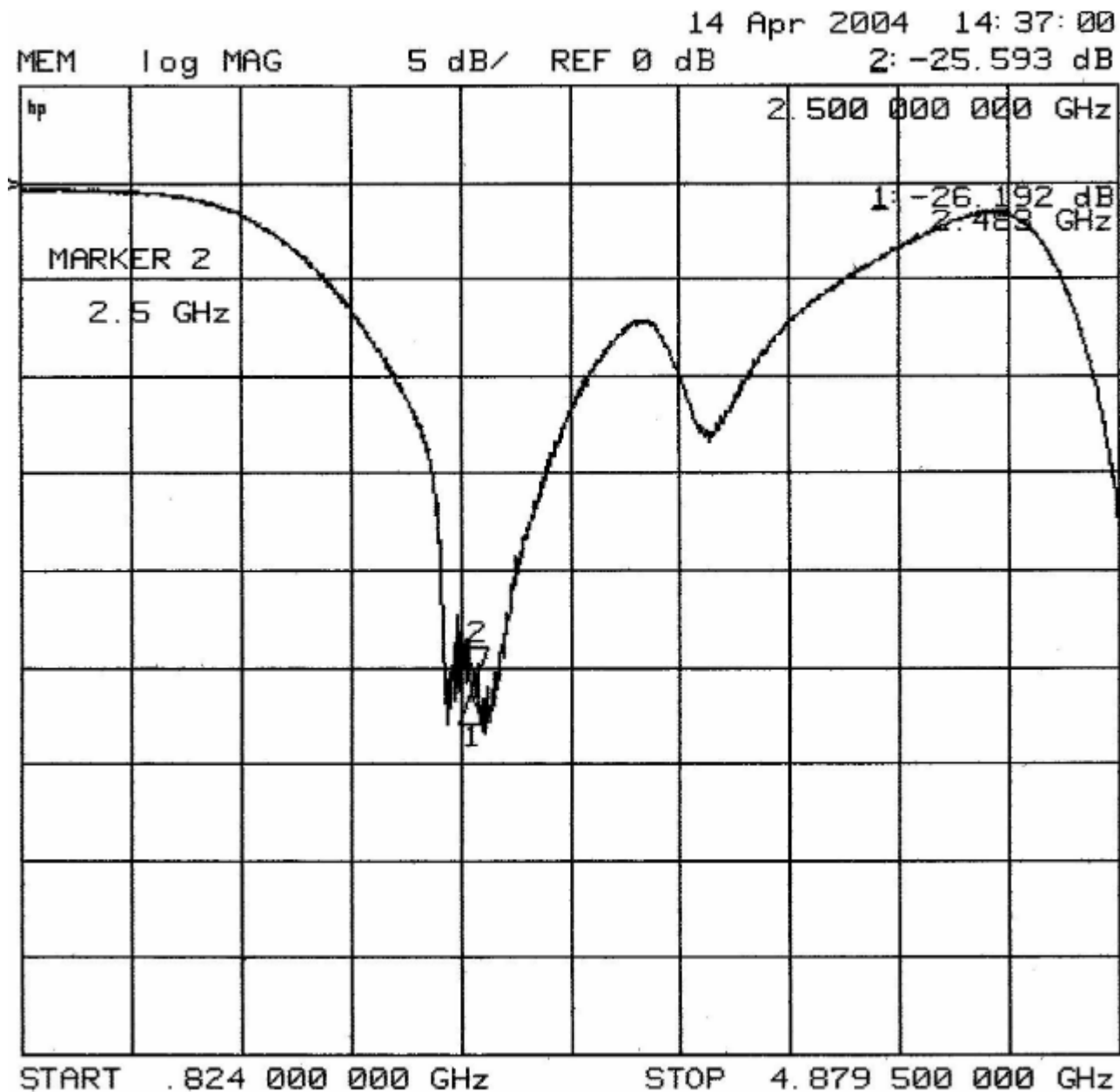
Tx/Rx Globalstar Helix Antennas: Amp. Output Return Loss @ -65C

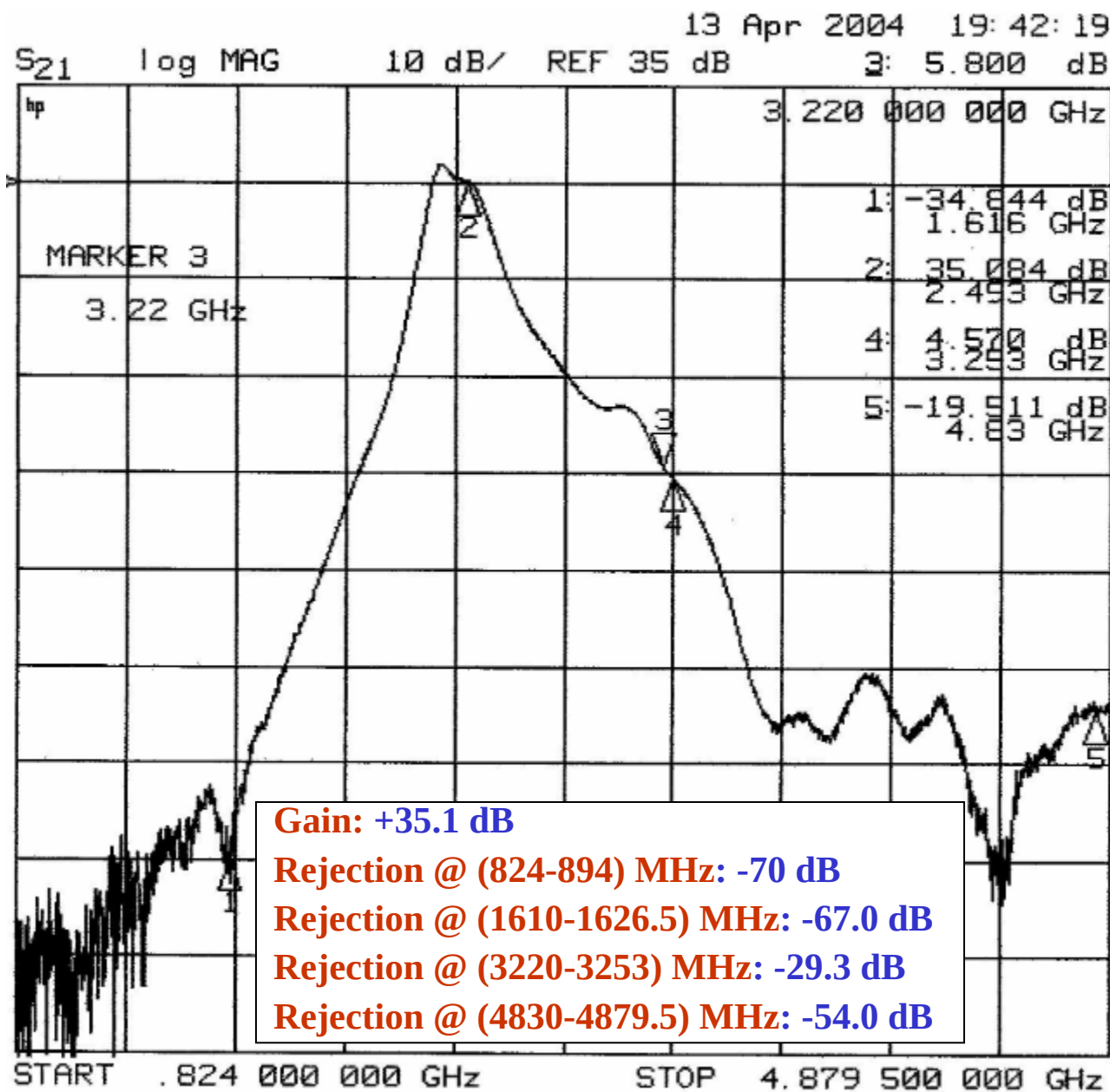
P/N: 73G1625LL-A1-XS-1F1

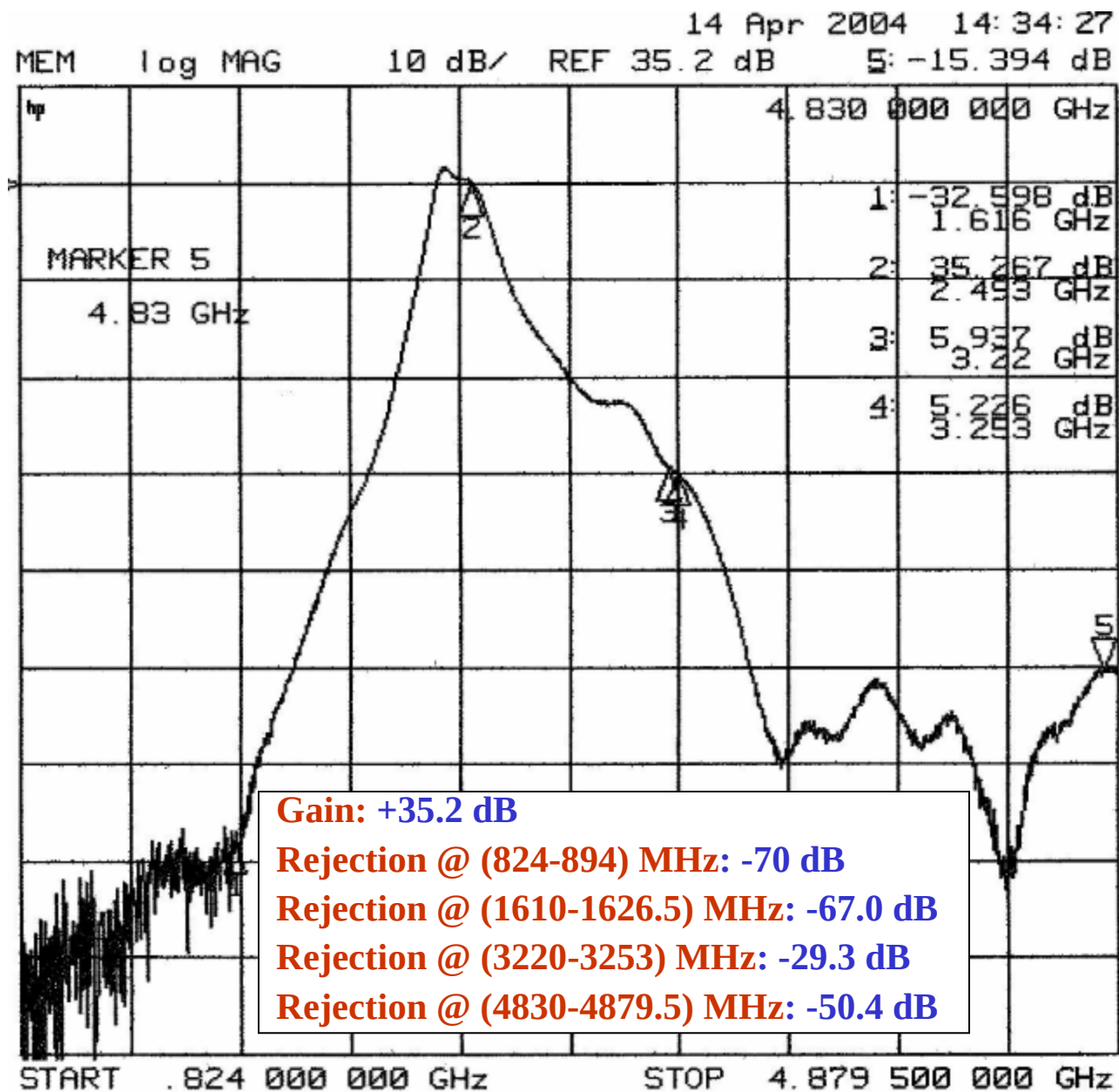


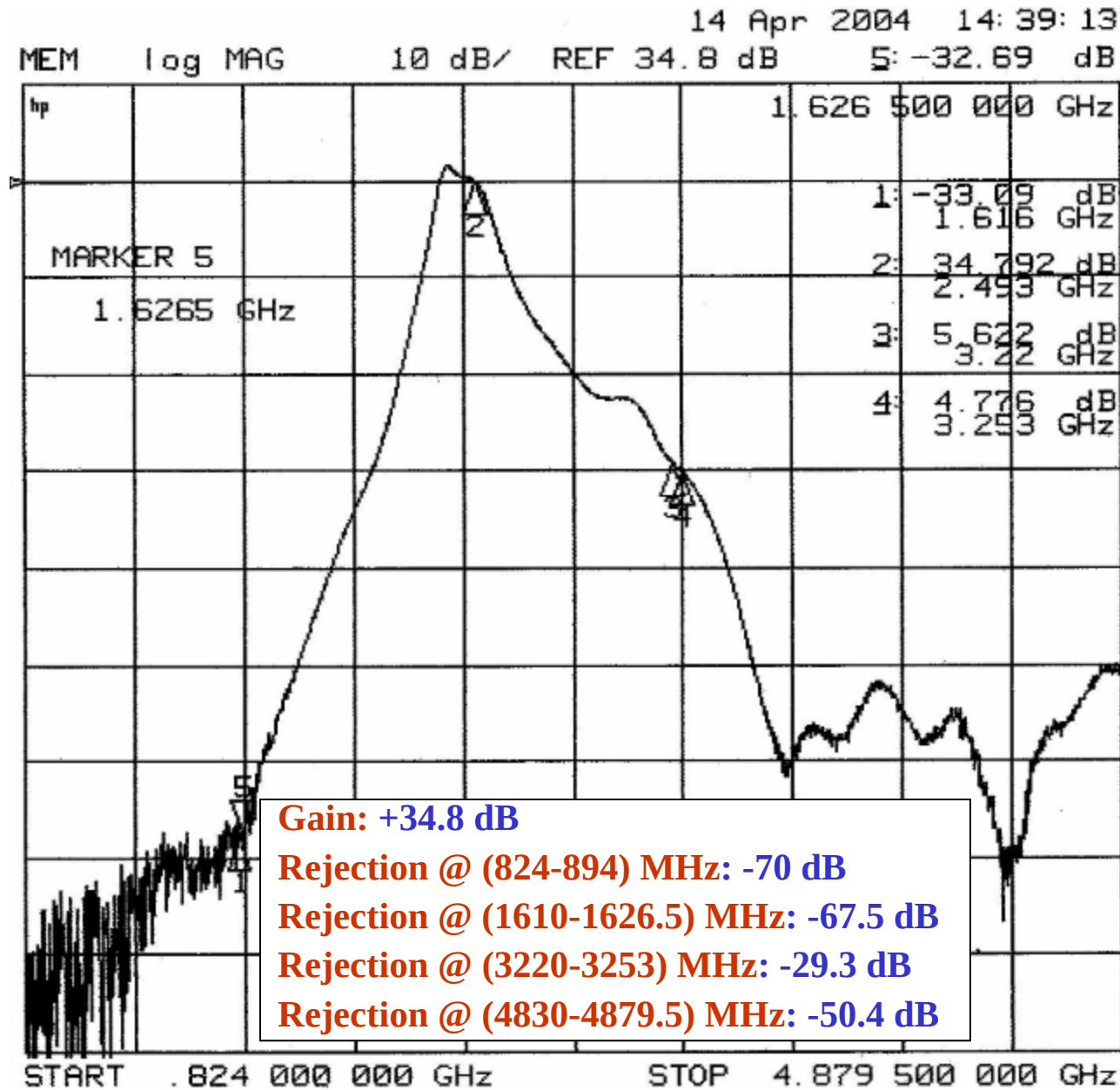
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Tx/Rx Globalstar Helix Antenna,
P/N: 73G1625LL-A1-XS-1F1,
Tx Harmonics Performance
From 500MHz to 20 GHz



Tx/Rx Globalstar Helix Antennas: Tx Harmonics, S/N: Nickel
P/N: 73G1625LL-A1-XS-1F1



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