

Trilogy AP

The Trilogy AP antenna is two sleeved dipole antennas for spatial diversity mounted in an integrated molded housing that mounts to the 11 Mbps series of Access Points. The gain is less than 2 dBi in all planes. The antenna assembly flips up or down to accommodate the access point mounting method of either a horizontal

<i>Location</i>	Table Top, Wall Mount
<i>Pattern</i>	Omni
<i>Type</i>	Spatial Diverse Dipoles
<i>Max Gain</i>	2 dBi
<i>Physical</i>	See attached dwg.
<i>Cable</i>	4.5" min
<i>Symbol P/N</i>	21-20667-XX

or vertical surface. The antenna can swivel to maintain its vertical orientation. This antenna can also be mounted in a plastic base with a longer cable for use with a Spectrum 24 PCI computer card. The antenna will, in this usage clearly will be more than 20 cm from the user and so, be classified as a mobile antenna.

The following RF exposure information is included in a prominent place in the device's user manual to inform the user of safety issues as required by OET Bulletin 65, Supplement C when ever the device configuration could reduce the MPE distance to be less than 20 cm.

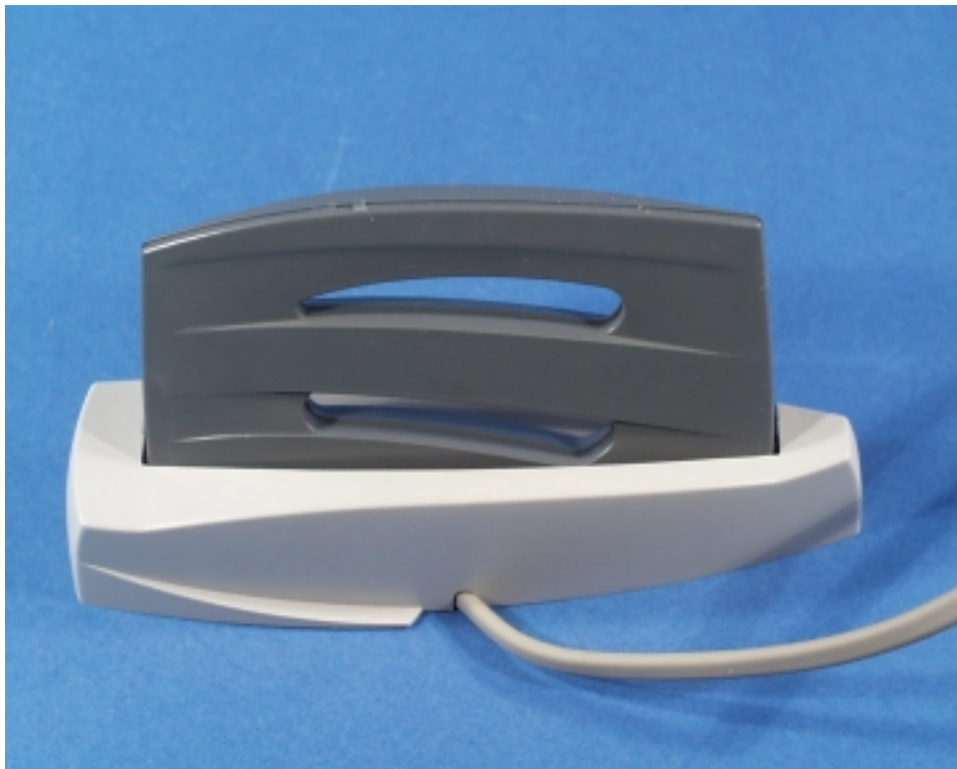
“Important Note: To comply with FCC RF exposure requirements, no one may remain within 20 cm of the antenna for extended periods of time.”



Antenna Installed in Flip up holder

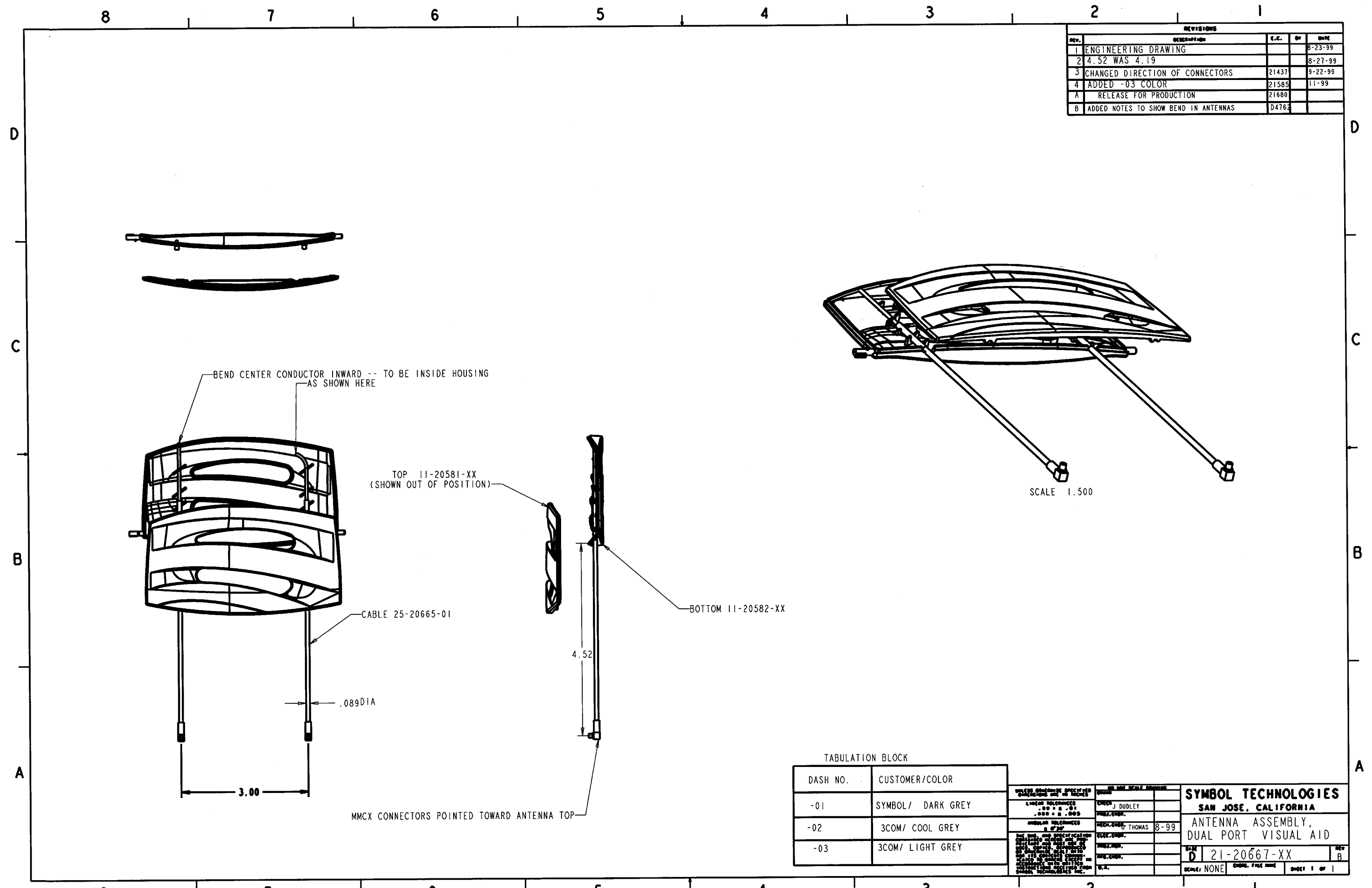


Access point table top configuration



Remote bracket holder.

REVISIONS			
REV.	DESCRIPTION	E.C.	DATE
1	ENGINEERING DRAWING		8-23-99
2	4.52 WAS 4.19		8-27-99
3	CHANGED DIRECTION OF CONNECTORS	21437	9-22-99
4	ADDED -03 COLOR	21585	11-99
A	RELEASE FOR PRODUCTION	21680	
B	ADDED NOTES TO SHOW BEND IN ANTENNAS	D4762	

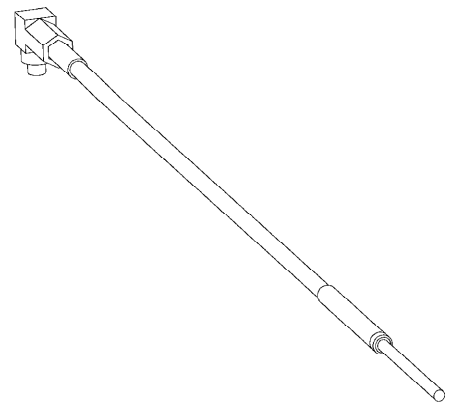
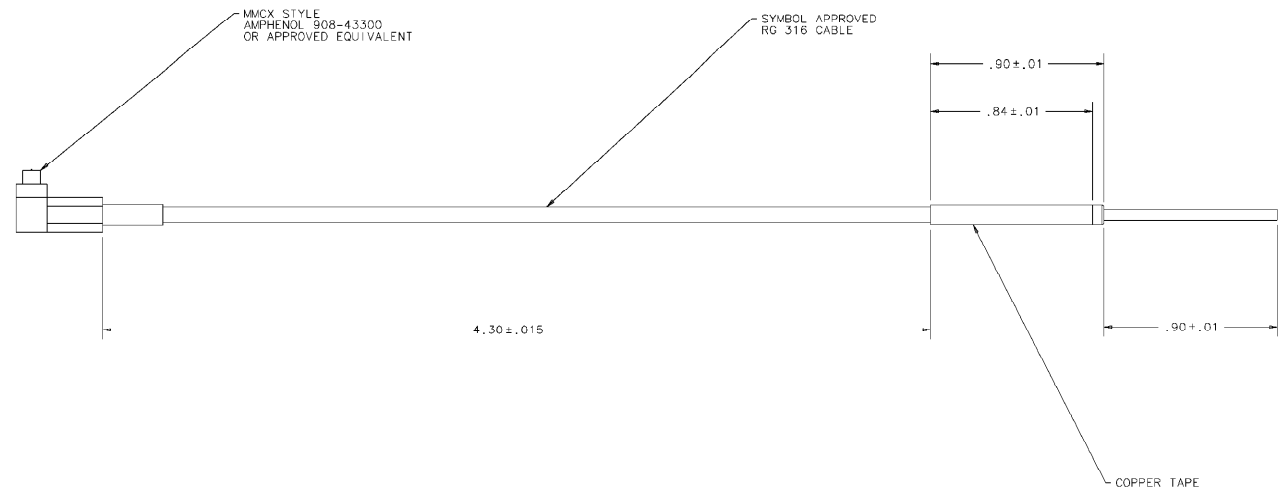
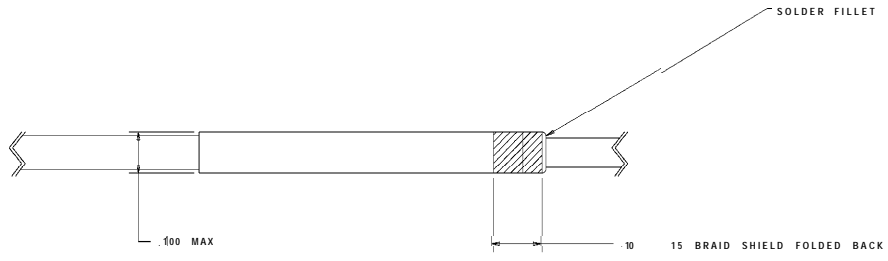


TABULATION BLOCK

DASH NO.	CUSTOMER/COLOR
-01	SYMBOL/ DARK GREY
-02	3COM/ COOL GREY
-03	3COM/ LIGHT GREY

<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small> <small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MILLIMETERS</small>		<small>DR AND SCALE APPROVED</small> CHECK J DUDLEY <small>DATE</small>	SYMBOL TECHNOLOGIES SAN JOSE, CALIFORNIA ANTENNA ASSEMBLY, DUAL PORT VISUAL AID
<small>APPROVALS</small> <small>DESIGNED BY</small> <small>CHECKED BY</small> <small>DATE</small>	<small>DESIGNED BY</small> <small>DATE</small>	<small>DATE</small> D 21-20667-XX <small>SCALE: NONE</small> <small>CHG. FILE NO.</small> <small>SHEET 1 OF 1</small>	

REVISIONS							
REV.	70NF	Δ	DESCRIPTION	E. C.	BY	APVD.	DATE
A			RELEASED PER EDR# 52297		AW	TK	11/19/99



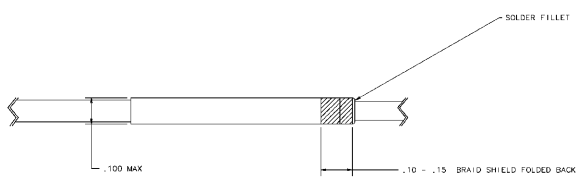
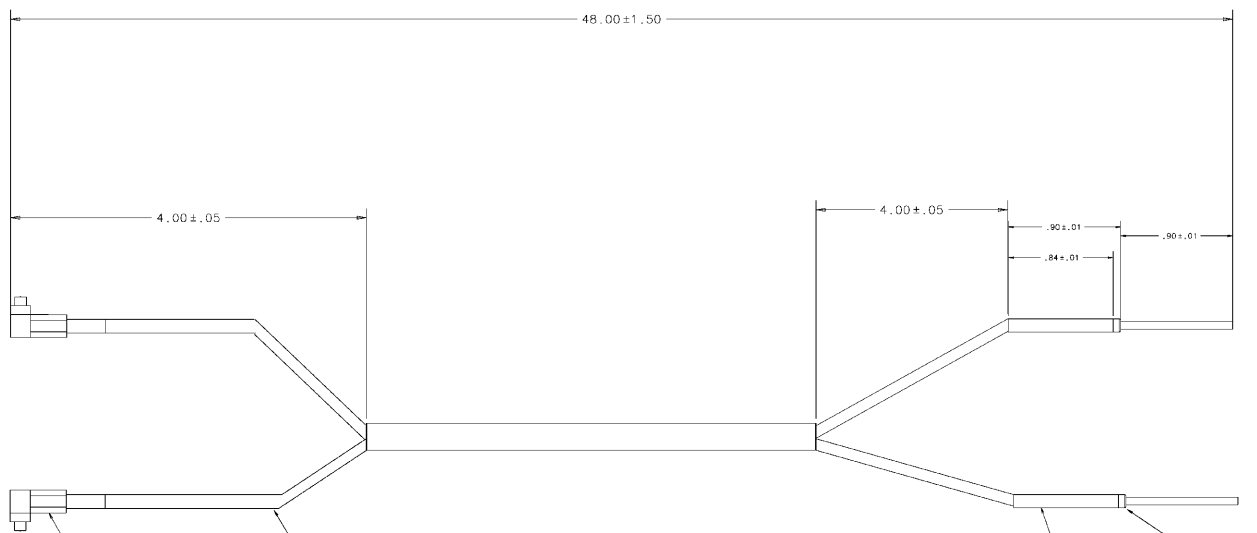
NOTES

1. FOLD BRAID BACK AROUND JACKET.
WRAP COPPER TAPE AROUND JACKET AND BRAID
SOLDER BRAID TO COPPER TAPE.
2. WORKMANSHIP PER STISTANDARDS #SS-03800-57-14.
3. PACKAGE 100 CABLES PER BAG.

ITEM	QTY.	PART NO.	DESCRIPTION	REMARKS/REF. SYMBOL																																																		
<table border="1"> <tr> <td rowspan="4"> THE DWG. & SPECIFICATION CONTAINED HEREON ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM SYMBOL TECHNOLOGIES INC. </td> <td colspan="2">DIMENSIONS ARE IN INCHES</td> <td>APPROVALS</td> <td>DATE</td> <td rowspan="4"> SYMBOL TECHNOLOGIES INC. Bohemia, New York TRILOGY </td> </tr> <tr> <td colspan="2">UNLESS OTHERWISE SPECIFIED</td> <td>DRAWN AMIR WEISS</td> <td>11 16 99</td> </tr> <tr> <td>.XX</td> <td>+/-</td> <td>+/-</td> <td>.01</td> <td>CHECKED</td> </tr> <tr> <td>.XXX</td> <td>+/-</td> <td>+/-</td> <td>.005</td> <td>ENGINEER</td> </tr> <tr> <td colspan="2">ANGLES ± 1°</td> <td>FRACTIONS ± 1/64</td> <td>MFG. ENG.</td> <td></td> <td></td> </tr> <tr> <td colspan="3">MATERIAL:</td> <td>PRODUCT</td> <td>SIZE</td> <td>DWG. NO. 25-20665-01</td> </tr> <tr> <td colspan="3">FINISH:</td> <td>QUALITY</td> <td>SCALE: NONE</td> <td>REVISION A</td> </tr> <tr> <td colspan="3">DO NOT SCALE DRAWING</td> <td>SOLID MODEL</td> <td>YES</td> <td>NO</td> </tr> <tr> <td colspan="3"></td> <td colspan="2">SHEET 1 OF 1</td> <td></td> </tr> </table>					THE DWG. & SPECIFICATION CONTAINED HEREON ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM SYMBOL TECHNOLOGIES INC.	DIMENSIONS ARE IN INCHES		APPROVALS	DATE	SYMBOL TECHNOLOGIES INC. Bohemia, New York TRILOGY	UNLESS OTHERWISE SPECIFIED		DRAWN AMIR WEISS	11 16 99	.XX	+/-	+/-	.01	CHECKED	.XXX	+/-	+/-	.005	ENGINEER	ANGLES ± 1°		FRACTIONS ± 1/64	MFG. ENG.			MATERIAL:			PRODUCT	SIZE	DWG. NO. 25-20665-01	FINISH:			QUALITY	SCALE: NONE	REVISION A	DO NOT SCALE DRAWING			SOLID MODEL	YES	NO				SHEET 1 OF 1		
THE DWG. & SPECIFICATION CONTAINED HEREON ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM SYMBOL TECHNOLOGIES INC.	DIMENSIONS ARE IN INCHES		APPROVALS	DATE		SYMBOL TECHNOLOGIES INC. Bohemia, New York TRILOGY																																																
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FINISH:			QUALITY	SCALE: NONE	REVISION A																																																	
DO NOT SCALE DRAWING			SOLID MODEL	YES	NO																																																	
			SHEET 1 OF 1																																																			

PROJECT: COMMON_CABLES		
LIBRARY: RF PRODUCTS		
FILE: TRILOGY	NEXT ASSY	USED ON

REV		ZONE	REVISIONS	DESCRIPTION	E.C.	BY	APVD.	DATE
1	~	~	RELEASED PER PPD# 53027		~	LW	TK	12/17/99



- NOTES:
- 1) FOLD BRAID AROUND JACKET. WRAP COPPER TAPE AROUND JACKET AND BRAID. SOLDER BRAID TO COPPER TAPE.
 - 2) WORKMANSHIP PER STI STANDARDS #SS-03800-57-14.
 - 3) PACKAGE 10 CABLES PER BAG.

ITEM	QTY	PART NO.	DESCRIPTION	REMARKS/REF. SYMBOL
PARTS LIST				
		DIMENSIONS ARE IN UNLESS OTHERWISE SPECIFIED		APPROVALS DATE
		DRAWN	L. WENDT	12/13/99
		CHECKED	T. KENDE	12/13/99
		ENGIN	ENGINERO, THOMAS	12/17/99
		MFG.	ENG.	
		MATERIAL:		
		QUALITY		
		FINISH:		
		SCALE:	NONE	
		REMOTE ANTENNA		
		SHEET	1 OF 1	

TRILIOGY	DO NOT SCALE DRAWING
NEXT ASSY	USED ON

SIZE DWG NO 25-20728-01 REV 1

Novas Antenna

The **Novas** antenna is 0 dBi omnidirectional in azimuth plane. It is mounted internally on the top end of the terminal as shown in the attached photo. The **Novas** uses a MMCX . In its use it would be within 20 cm of a persons hand but more than 20 cm from the users body. It is used in portable devices. The following RF exposure information is included in a prominent place in the device’s user manual to inform the user of safety issues as required by OET Bulletin 65, Supplement C for EIRP greater than 200 mW.

<i>Location</i>	Hand Held Device
<i>Pattern</i>	Omni
<i>Type</i>	F-Element
<i>Max Gain</i>	0 dBi
<i>Physical</i>	See attached dwg
<i>Cable</i>	RG-178
<i>Symbol P/N</i>	50-21900-034
<i>EIRP</i>	See Summary Tbl

“Important Note: To comply with FCC RF exposure requirements, this hand-held device is approved for operation in a user’s hand when there is 20 cm or more between the antenna and the user’s body.”



Antenna Installed in Device

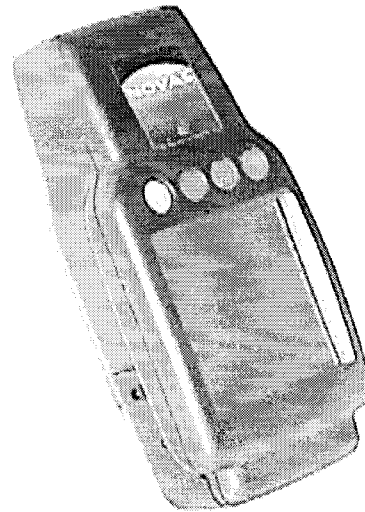
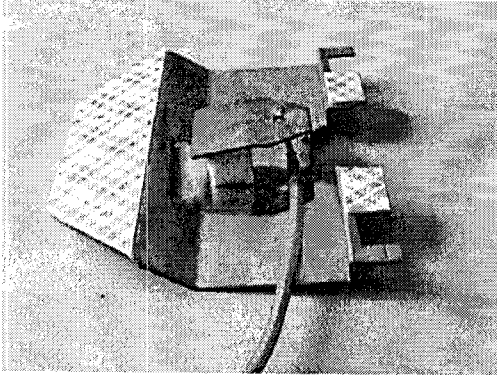
Information for internal antenna for Global Data - Granite Communications NOVAS Product.

Antenna Manufacturer: Tecom Industries
9324 Topanga Canyon BLVD
Chatsworth, CA 91311

Antenna Part Number: 703562

Antenna Mechanical Drawing: See Attached.

Antenna Photograph:



Antenna Location in Product: Product Photograph:
Behind NOVAS Label at top of unit.

Antenna Characteristics: See attached Data Plots.

Symbol Radio to be certified with: LA-3020 100mW

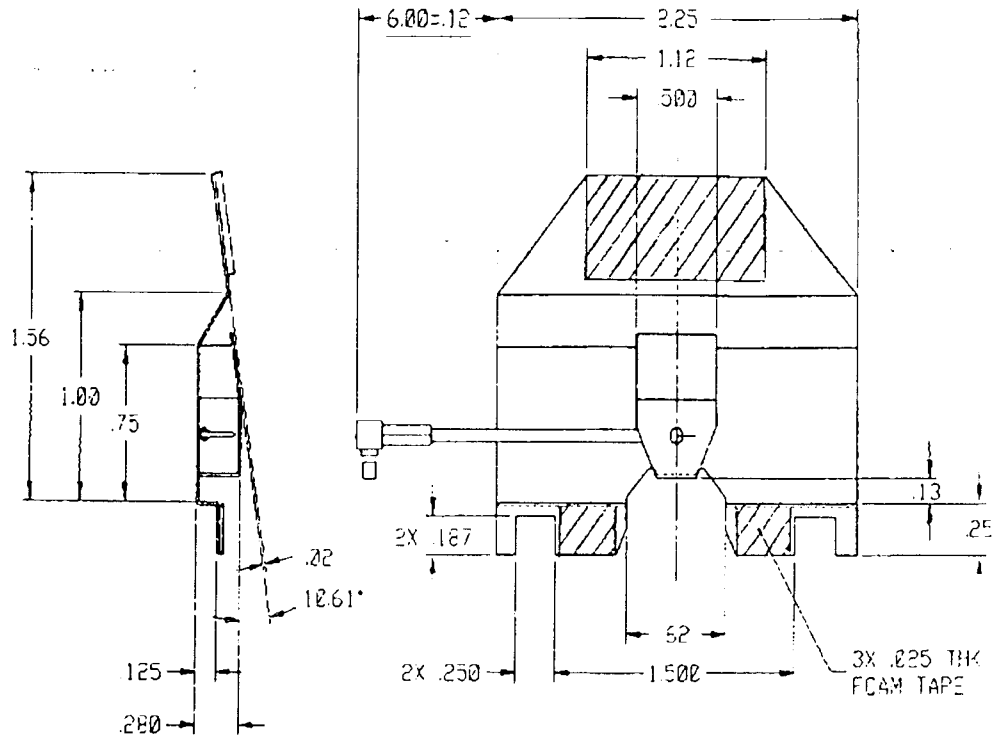
Certifications Required: FCC 15.247 Only at this time.

Global Data - Granite Communications contact: Bob Douthart
603-881-8666 x142
bdouthart@gcicom.com

CONTRACTOR: TECOM INDUSTRIES, INC.
 EXPLANATION OF LIMITED RIGHTS DATA INDICATION USED
 LIMITED RIGHTS APPLY TO ENTIRE DRAWING.
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 LEGEND ARE SET FORTH IN THE DEFINITION OF "LIMITED RIGHTS" IN 48 CFR
 27.402 THIS LEGEND, TOGETHER WITH THE INDICATIONS OF THE PORTIONS OF
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 TO SUCH LIMITED RIGHTS.

ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	REVISED PICTORIAL OF CABLE 6.00=1.2 WAS 1.33; CABLE ASSY WAS MURATA COAX. M411662 CONNECTOR WAS MURATA, 37A REDRAWN REMOVED .010 THK ADHESIVE TAPE ADDED 3X .025 THK FOAM TAPE	4-8-99 ML	<i>[Signature]</i> 68

DOCUMENT CONTROL
 APR 27 1999



SPECIFICATIONS

FREQUENCY: 2.4-2.485 GHZ
 VSWR: 2.0:1 MAX
 GAIN: 0dB; NOMINAL

CABLE ASSY: RG 173
 CONNECTOR: MMCX RT ANGLE

2. FINISH: BRIGHT TIN PLATE PER MIL-T-10727A, TYPE 1,
 ELECTRO DEPOSITED 30010-.00025 THK FINISH SHALL BE
 UNIFORM AND EXHIBIT NO EVIDENCE
 OF CORROSION OR OXIDATION WHEN
 VIEWED WITH THE UNAIDED EYE.
 EDGE PLATING ON CUT OR SHEARED
 SURFACES IS NOT REQUIRED.

1. MATERIAL: CRS 1008, .015 THK.
 BREAK SHARP CORNERS & EDGES
 ALTERNATE: ELECTROLYTIC TIN

DIM		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: XX ± .03 XX ± .015 ANGLES ± .030 MACHINED SURFACE POLISHLESS 125 ✓ REMOVE BUMPS, SHARP EDGES R.005-.015 MACHINED FILLETS R.005-.015 DIMENSIONS ARE AFTER PLATING MACHINED DIA'S ON COMMON CENTERLINE CONCENTRIC WITHIN .005 DIA INTERPRET PER ANSI Y14.5M-1992.		CONTRACT NUMBER		TECOM INDUSTRIES, INC. 8524 TOPGATE DR. BLDG. CHANDLER, AZ 85226 TECHNICAL PROFICIENCY COMMITTEE TO QUALITY	
		MOLE TOLERANCES:		DRAWN BY		DATE	
		.040 - .250 +.003 - .001		J. LOSE		2-26-99	
		.138 - .250 +.004 - .001		CHECKER		WTF ENGR	
		.234 - .500 +.005 - .001		QA		ENGR	
		1.031 UP - .002		BI		ENGR	
NEXT ASSY		USED ON		PART NO.		ENGR	
022860		CF50-092		PART NO.		ENGR	
SCALE		APPLICATION		SCALE		SHEET 1 OF 1	
502				2/1		SHEET 1 OF 1	



TITLE			
ANTENNA, 2.4 GHZ, (NOVAS)			
SZC	CAGE CODE	DWG NO	
C	52791	703562	
SCALE	2/1	SHEET	1 OF 1

NOTES: UNLESS OTHERWISE SPECIFIED

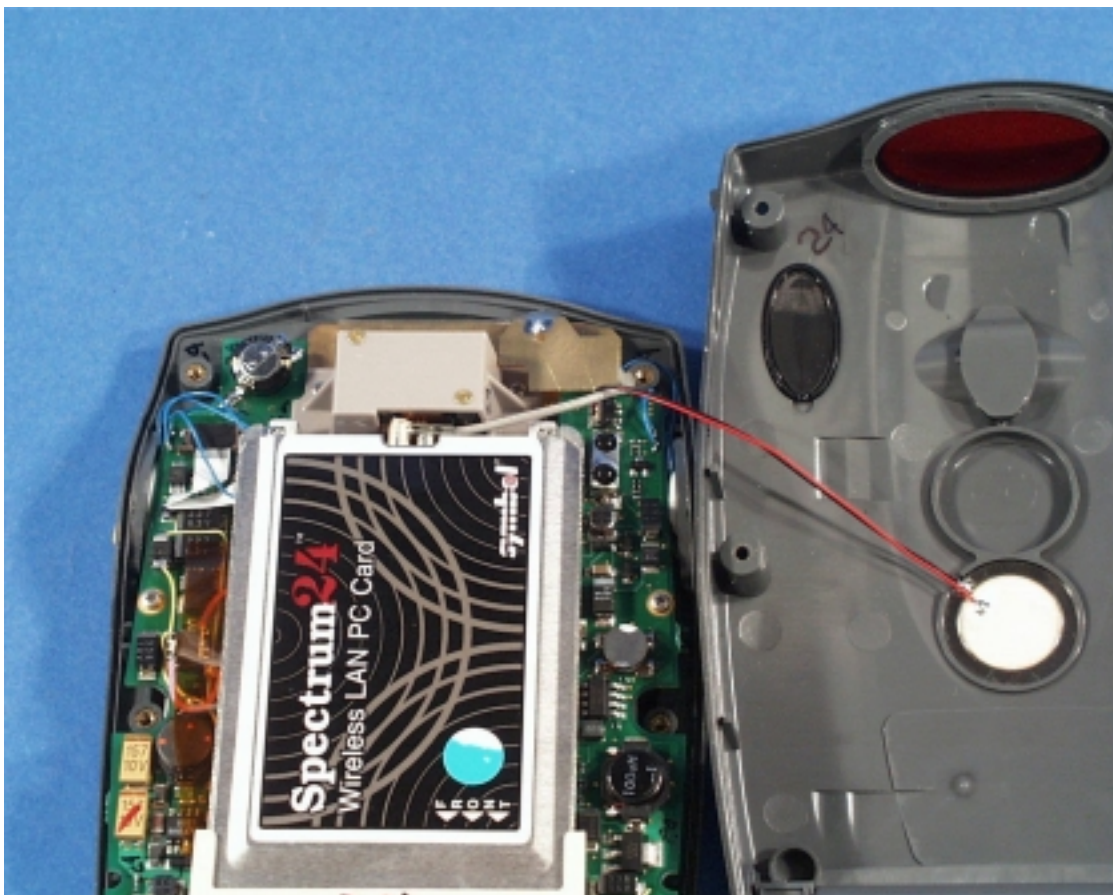
TEL NO: 818-718-1402 FAX NO: 818-718-1402

1740 / 1742 Antenna

The **1740** antenna is 0 dBi omni-directional in azimuth plane. It is mounted internally on the top end of the terminal as shown in the attached photo. In its use it would be within 20 cm of a persons hand but more than 20 cm from the users body. It is used in portable devices. The **1742** uses the MMCX connector instead of the MuRata BFA. The following RF exposure information is included in a prominent place in the device's user manual to inform the user of safety issues as required by OET Bulletin 65, Supplement C for EIRP greater than 200 mW.

<i>Location</i>	Hand Held Device
<i>Pattern</i>	Omni
<i>Type</i>	F-Element
<i>Max Gain</i>	0 dBi
<i>Physical</i>	See attached dwg
<i>Cable</i>	MXYH75, RG-178
<i>Symbol P/N</i>	703549-1

“Important Note: To comply with FCC RF exposure requirements, this hand-held device is approved for operation in a user’s hand when there is 20 cm or more between the antenna and everyone’s body.”



Antenna Installed in Device



Terminal Use Photo

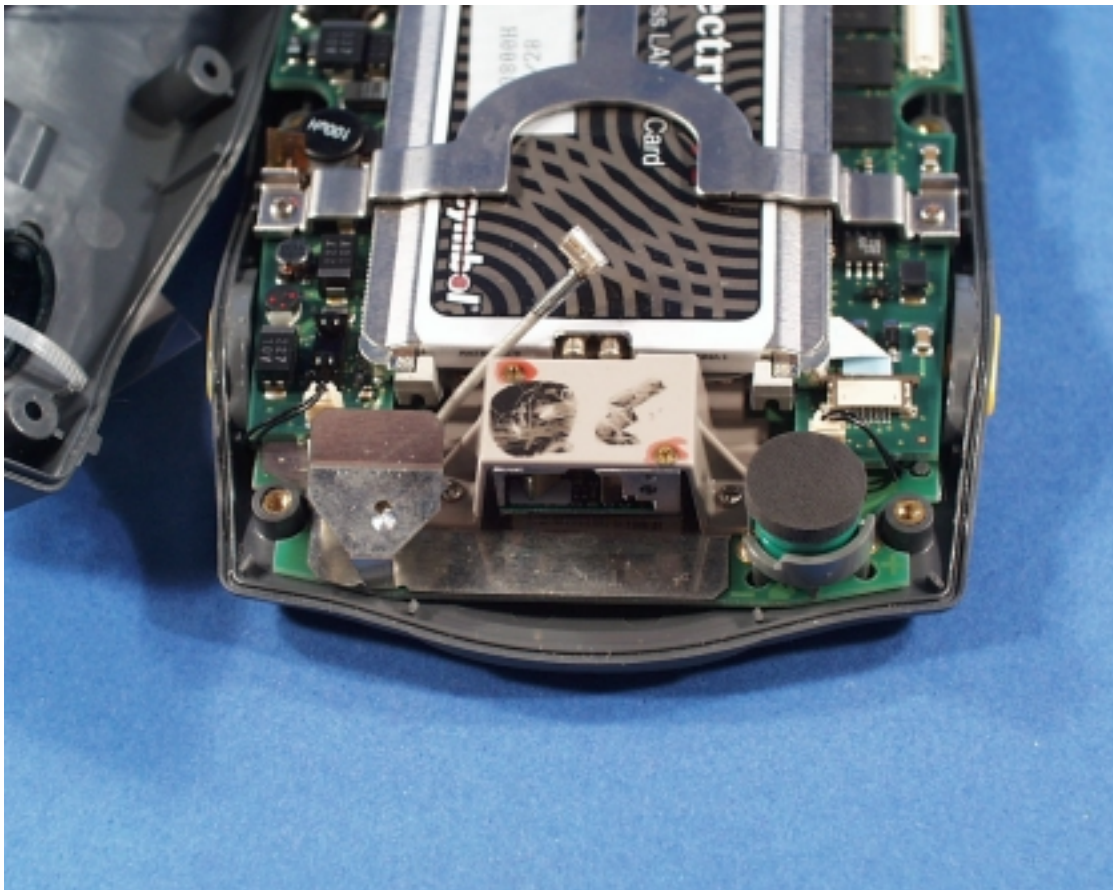
2740 / 2742 Antenna

The 2740 antenna is 0 dBi omni-directional in azimuth plane. It is mounted internally on the top end of the terminal as shown in the attached photo. The 2740 uses a Murata Erie BFA connector while the 2742 uses the MMCX. In its use it would be within 20 cm of a persons hand but more than 20 cm from the users body. It is used in portable devices. The following RF exposure information is included

<i>Location</i>	Hand Held Device
<i>Pattern</i>	Omni
<i>Type</i>	F-Element
<i>Max Gain</i>	0 dBi
<i>Physical</i>	See attached dwg
<i>Cable</i>	MXYH75, RG-178
<i>Symbol P/N</i>	703624-1, 703624-2

in a prominent place in the device's user manual to inform the user of safety issues as required by OET Bulletin 65, Supplement C for EIRP greater than 200 mW.

“Important Note: To comply with FCC RF exposure requirements, this hand-held device is approved for operation in a user’s hand when there is 20 cm or more between the antenna and everyone’s body.”



Antenna Installed in Device



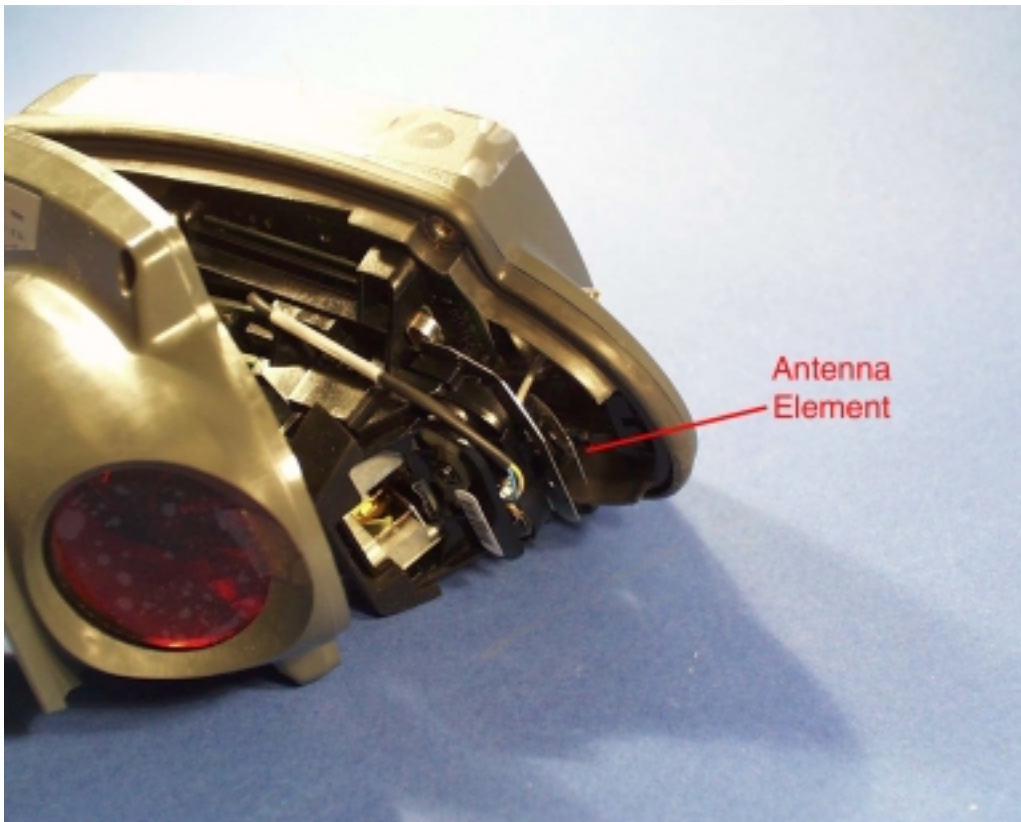
Terminal Use Photo

7240 / 7242 Antenna

The **7240** antenna is 0 dBi omni-directional in azimuth plane. It is mounted internally on the top end of the terminal as shown in the attached photo. The **7240** uses the MuRatta BFA connector. The **7242** is identical to the **7240** but uses the MMCX connector. In its use it would be within 20 cm of a persons hand but more than 20 cm from the users body. It is used in portable devices. The following RF exposure information is included in a prominent place in the device's user manual to inform the user of safety issues as required by OET Bulletin 65, Supplement C.

<i>Location</i>	Hand Held Device
<i>Pattern</i>	Omni
<i>Type</i>	F-Element
<i>Max Gain</i>	0 dBi
<i>Physical</i>	See attached dwg
<i>Cable</i>	MXZH75, RG-178
<i>Symbol P/N</i>	10-35475-01, 10-35477-01

“Important Note: To comply with FCC RF exposure requirements, this hand-held device is approved for operation in a user’s hand when there is 20 cm or more between the antenna and everyone’s body.”



Antenna Installed in Device



Terminal Use Photo

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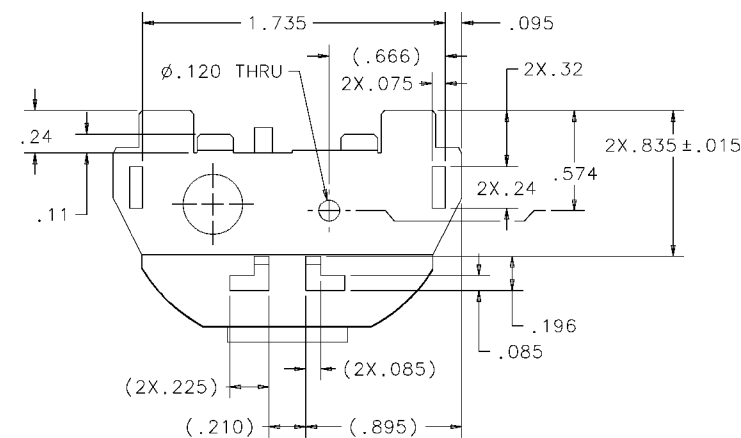
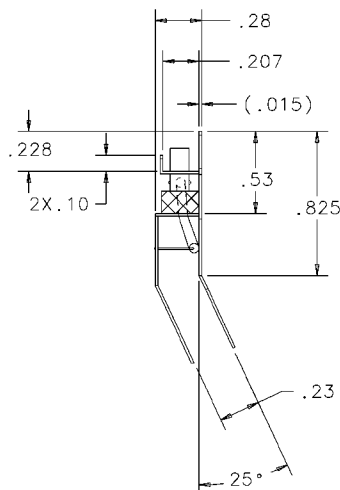
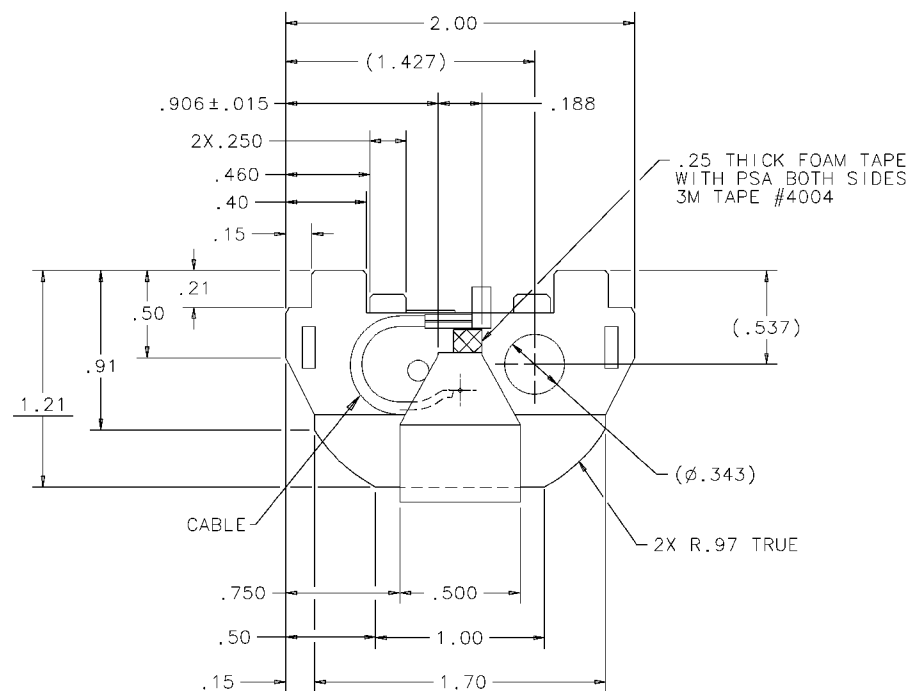
4

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REVISIONS						
REV	ZONE	DESCRIPTION	E.C.	BY	APVD.	DATE
A		RELEASED PER EDR #54642		MB		02/17/00



NOTES: UNLESS OTHERWISE SPECIFIED:

- 1) MATERIAL: CRS 1008, .015 ± .001 THK, SHARP CORNERS AND EDGES .005 MAX. ALTERNATE: ELECTROLYTIC TIN COATED COLD ROLLED STEEL .015 THICK. NON-PLATED EDGES ARE PERMISSIBLE.
- 2) FINISH: BRIGHT TIN PLATE PER MIL-T-10727A, TYPE 1, ELECTRO DEPOSITED .00010-.00025 IN. FINISH SHALL BE UNIFORM EXHIBIT NO EVIDENCE OF CORROSION OR OXIDATION WHEN VIEWED WITH THE UNAIDED EYE. EDGE PLATING ON CUT OR SHEARED SURFACES IS NOT REQUIRED.
- 3) PACKAGE ITEMS IN ACCORDANCE WITH STI GENERAL PACKAGING SPEC #50-04100-013.
- 4) PARTS SHALL MEET THE CRITERIA PER STI WORKMANSHIP STANDARD SS-03800-57.

SPECIFICATIONS

FREQUENCY: 2.4-2.485 GHz
 VSWR: 2.0:1
 GAIN: 0db i NOMINAL
 POLARIZATION: LINEAR
 CABLE: MURATA MXYH75
 CONNECTOR: TYPE BFA

* PROPRIETARY CONTENT *		
THE DRAWING CONTENT AND SPECIFICATION CONTAINED HEREIN ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED OR OTHERWISE DEALT WITH OR COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM SYMBOL TECHNOLOGIES INC.		
COMPUTER GENERATED DRAWING DO NOT SCALE		

TOLERANCE CHART	
* UNLESS OTHERWISE SPECIFIED * DIMENSIONS ARE IN INCHES	
INCH	MM
.XX	+/- .01
.XXX	+/- .005
ANGLES ± 1° FRACTIONS ± 1/64	

APPROVALS	DATE	SYMBOL TECHNOLOGIES INC.	
DRAWN JKW	05-05-99	One Symbol Plaza Holtsville, NY 11742	
CHECKED M.SAVONA	05-05-99	ANTENNA: 2.4GHZ	
ENGINEER J.CONNELLY	05-05-99	SIZE D	DWG. NO. 10-35475-01
ANALYST L.DOBKOWSKI	05-05-99	SCALE: 2/1	SHEET 1 OF 1

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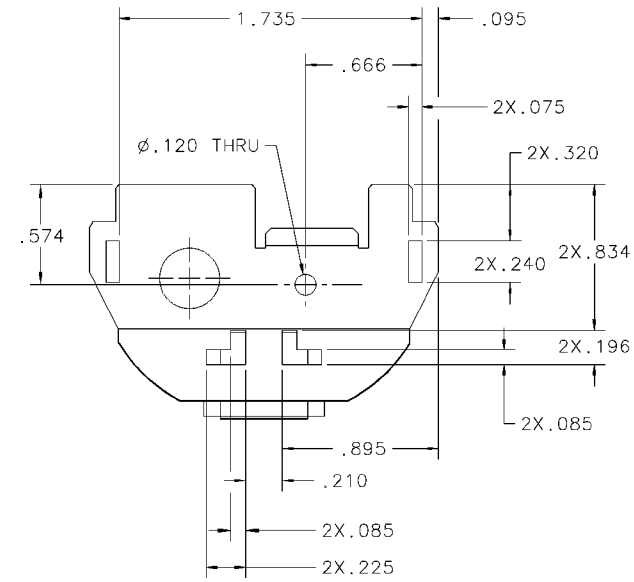
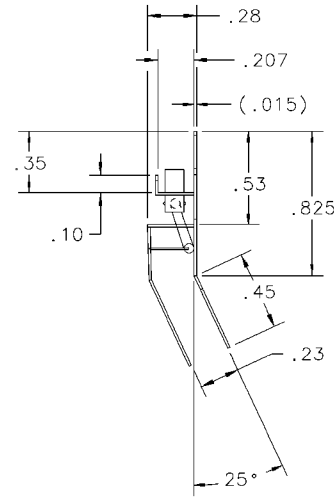
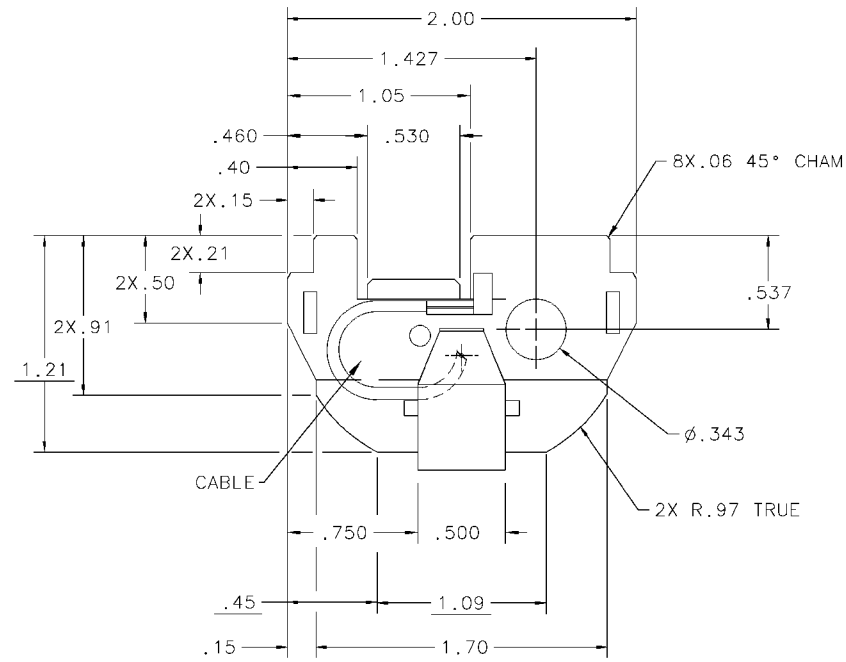
4

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1

REVISIONS						
REV	ZONE	DESCRIPTION	E.C.	BY	APVD.	DATE
1		INITIAL RELEASE PER PPD# 51859		JKW		11-03-99
2		REVISED PER PPD #52781 1) REVISED PER TECOM'S DWG		MB		12/8/99
3		REVISED PER PPD #53240 1) DIM .45 WAS .42 2) ADDED NOTE 5		MB		12/29/99



SPECIFICATIONS

FREQUENCY: 2.4-2.485 GHz
 VSWR: 2.0:1
 GAIN: 0dbi NOMINAL
 POLARIZATION: LINEAR
 CABLE: RG178
 CONNECTOR: 50-22100-029 (MMCX)

NOTES: UNLESS OTHERWISE SPECIFIED:

- MATERIAL: CRS 1008, .015 THK, SHARP CORNERS AND EDGES .005 MAX. ALTERNATE: ELECTROLYTIC TIN.
- FINISH: BRIGHT TIN PLATE PER MIL-T-10727A, TYPE 1, ELECTRO DEPOSITED .00010-.00025 IN. FINISH SHALL BE UNIFORM EXHIBIT NO EVIDENCE OF CORROSION OR OXIDATION WHEN VIEWED WITH THE UNAIDED EYE. EDGE PLATING ON CUT OR SHEARED SURFACES IS NOT REQUIRED.
- PACKAGE ITEMS IN ACCORDANCE WITH STI GENERAL PACKAGING SPEC #50-04100-013.
- WORKMANSHIP PER STI STANDARD SS-03800-57.
- ALL UNDERLINED DIMENSIONS ARE OUT OF SCALE AND ARE NOT REFLECTED IN THE 3-D DATA BASE

ITEM	QTY	PART NO.	DESCRIPTION	REMARKS/REF. SYMBOL
PARTS LIST				
			APPROVALS	DATE
			DRAWN JKW	11-03-99
			CHECKED W. SAVONA	11-03-99
			ENGINEER J. CONNELLY	11-03-99
			MFG. ENG.	
			PRODUCT	
			QUALITY	
			ANALYST L. DOBKOWSKI	12-29-99
PDT 7200		MATERIAL: SEE NOTE 1		FINISH: SEE NOTE 2
NEXT ASSY USED ON		DO NOT SCALE DRAWING		

SYMBOL TECHNOLOGIES INC. Bohemia, New York			
ANTENNA: 2.4GHZ, 11/2MBPS, PDT7200			
SIZE	DWG. NO.	REV	
D	10-35477-01	3	
SCALE:	2:1	SOLID MODEL	<input checked="" type="checkbox"/>
		SHEET	1 of 1

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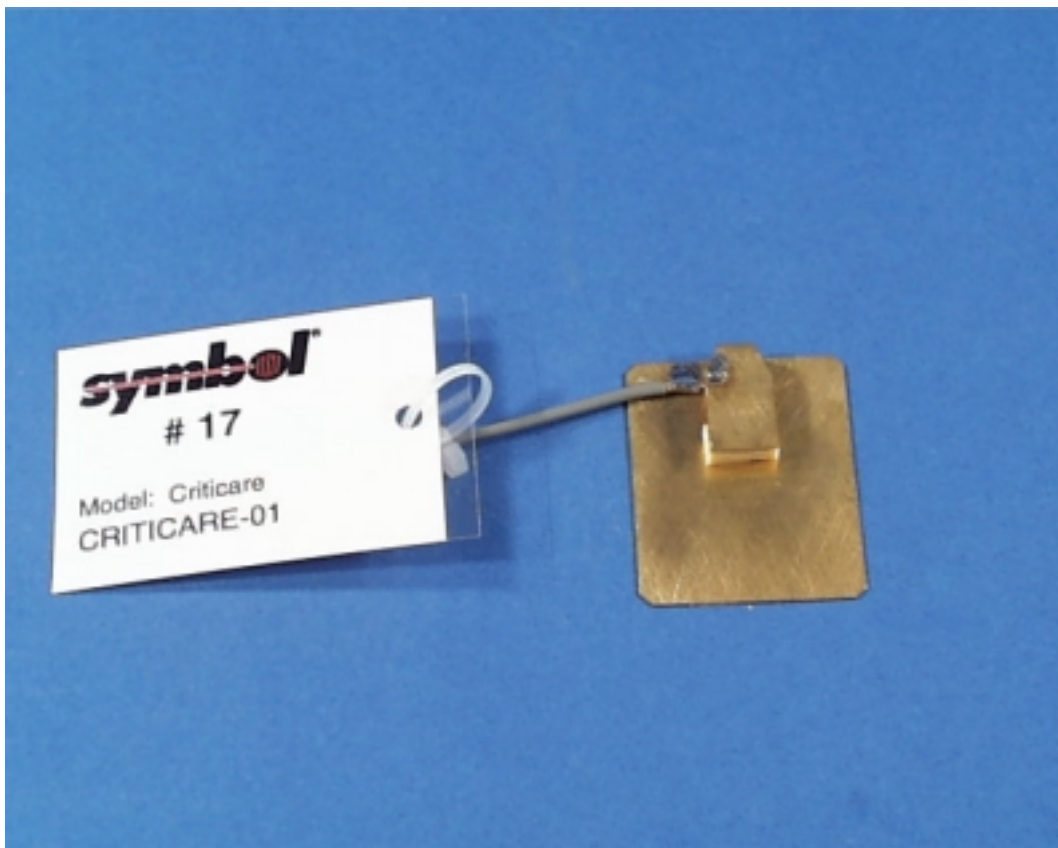
1

Criticare BFA / Criticare MMCX Antenna

The **Criticare** antenna is 0 dBi omnidirectional in azimuth plane. It is mounted internally on the left end of the terminal as shown in the attached exploded assembly drawing. The **BFA** version uses a Murata Erie BFA connector while the MMCX uses the MMCX connector. In its use it could be within 5 cm of a persons body. It is used in portable devices.

<i>Location</i>	Hand Held Device
<i>Pattern</i>	Omni
<i>Type</i>	F-Element
<i>Max Gain</i>	0 dBi
<i>Physical</i>	See attached dwg
<i>Cable</i>	MXYH75, RG-178
<i>Symbol P/N</i>	50-21900-021, 703443-2
<i>EIRP</i>	See Summary Tbl

Note: This antenna / terminal configuration is only to be used with a transmitter that produces an EIRP of less than 200 mW. For an EIRP of more than 200 mW a SAR test must be performed.



Antenna Photo



IV Pole Configuration



Ambulatory Configuration

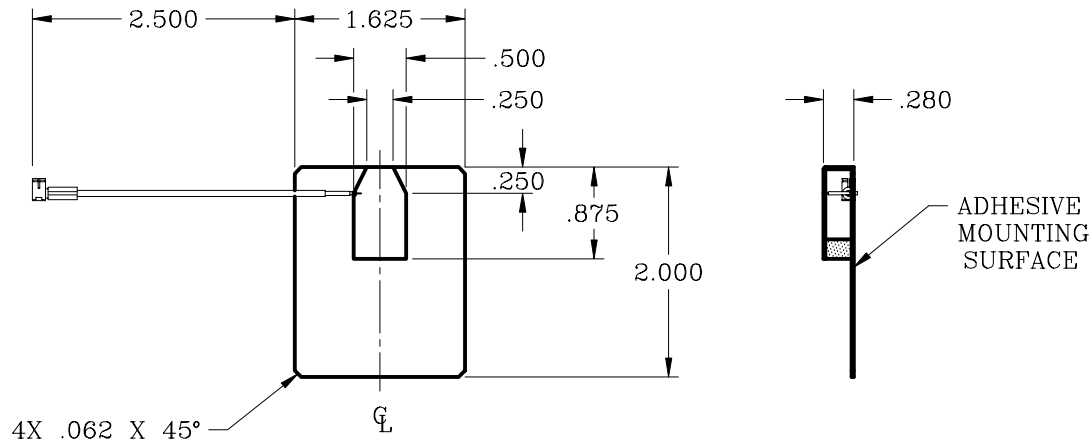
LIMITED RIGHTS LEGEND
 CONTRACT NO. : _____ AND SEE BLOCK BELOW.
 CONTRACTOR : TECOM INDUSTRIES, INC.
 EXPLANATION OF LIMITED RIGHTS DATA INDICATION USED
 LIMITED RIGHTS APPLY TO ENTIRE DRAWING.

THE RESTRICTIONS GOVERNING THE USE OF TECHNICAL DATA MARKED WITH THIS LEGEND ARE SET FORTH IN THE DEFINITION OF "LIMITED RIGHTS" IN DFARS 227.472. THIS LEGEND, TOGETHER WITH THE INDICATIONS OF THE PORTIONS OF THIS DATA WHICH ARE SUBJECT TO LIMITED RIGHTS SHALL BE INCLUDED ON ANY REPRODUCTION HEREOF WHICH INCLUDES ANY PART OF THE PORTIONS SUBJECT TO SUCH LIMITED RIGHTS.

PROPOSAL DWG

REVISIONS

ZONE	LTR	DESCRIPTION	DATE	APPROVED
B2,C3	A	CABLE/CONNECTOR: WAS: MMCX RIGHT ANGLE ADDED IMPEDANCE DIM: .280 WAS: .290 MATERIAL: WAS: .020 THK	2-26-98 TSR	
	B	CONNECTOR WAS FACING OPPOSITE OF SHOWN. ADDED CABLE/CONNECTOR SIDE VIEW. WO 4941	3-13-98 <i>Kwan</i>	



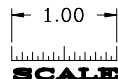
SPECIFICATIONS

FREQUENCY: _____ 2.4-2.485 GHz
 VSWR: _____ 2.0:1
 GAIN: _____ +0 dBi NOM
 IMPEDANCE: _____ 50 OHM
 CABLE/CONNECTOR: _____ MURATA ERIE
 MXYH62-XX-XXXX

2. FINISH: BRIGHT TIN PLATE PER MIL-T-10727A, TYPE 1, ELECTRO DEPOSITED .0001-.00025 IN. FINISH SHALL BE UNIFORM AND EXHIBIT NO EVIDENCE OF CORROSION OR OXIDATION WHEN VIEWED WITH THE UNAIDED EYE. EDGE PLATING ON CUT OR SHEARED SURFACES IS NOT REQUIRED.

1. MATERIAL: CRS 1008 .015 THK CORNERS AND EDGES TO BE .005 MAX ALTERNATE: ELECTROLYTIC TIN

NOTES : UNLESS OTHERWISE SPECIFIED



PMIC	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES: .XX ± .03 .XXX ± .010 ANGLES ± 0'30' MACHINED SURFACE ROUGHNESS 125 ✓ REMOVE BURRS, SHARP EDGES R.005-.015 MACHINED FILLETS R.005-.015 DIMENSIONS ARE AFTER PLATING. MACHINED DIA'S ON COMMON CENTERLINE CONCENTRIC WITHIN .005 TIR. INTERPRET PER ANSI Y14.5M-1982.		CONTRACT NUMBER	
	HOLE TOLERANCES:		CONTRACTOR	
	.040 - .128	+003 -.001	.515 - .750	+008 -.001
	.136 - .228	+004 -.001	.765 - 1.000	+010 -.002
	.234 - .500	+006 -.001	1.031 UP	+015 -.002
NEXT ASSY	USED ON	MATL ENGR	APPROVAL	PRGM MGR
APPLICATION				

		TECOM INDUSTRIES INC. 9324 TOPANGA CYN BLVD CHATSWORTH, CA. 91311 TECHNICAL EXCELLENCE COMMITTED TO QUALITY	
		TITLE ANTENNA, 2.4 GHZ TYPE 505112E	
SIZE	CAGE CODE	DWG NO	
C	52791	703443	
SCALE	1/1	UNIT WT	SHEET 1 OF 1

7546D Antenna

The **7546D** antenna is 0 dBi omni-directional in azimuth plane. It is mounted internally at the far end of the terminal on the bottom side as shown in the attached photo. The **7546D** uses two F-elements for spatial diversity. The **7546D** uses a MMCX connector. In its use it would be within 20 cm of a persons hand but more than 20 cm from the users body. It is used in portable devices. The following RF exposure information is included in a prominent place in the device's user manual to inform the user of safety issues as required by OET Bulletin 65, Supplement C for EIRP greater than 200 mW.

<i>Location</i>	Hand Held Device
<i>Pattern</i>	Omni
<i>Type</i>	F-Element
<i>Max Gain</i>	0 dBi
<i>Physical</i>	See attached dwg
<i>Cable</i>	RG-178
<i>Symbol P/N</i>	10-40948-01

“Important Note: To comply with FCC RF exposure requirements, this hand-held device is approved for operation in a user’s hand when there is 20 cm or more between the antenna and everyone’s body.”

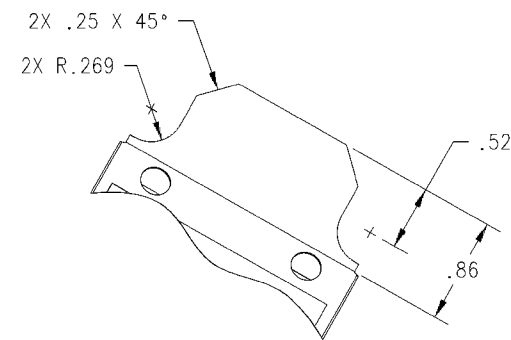
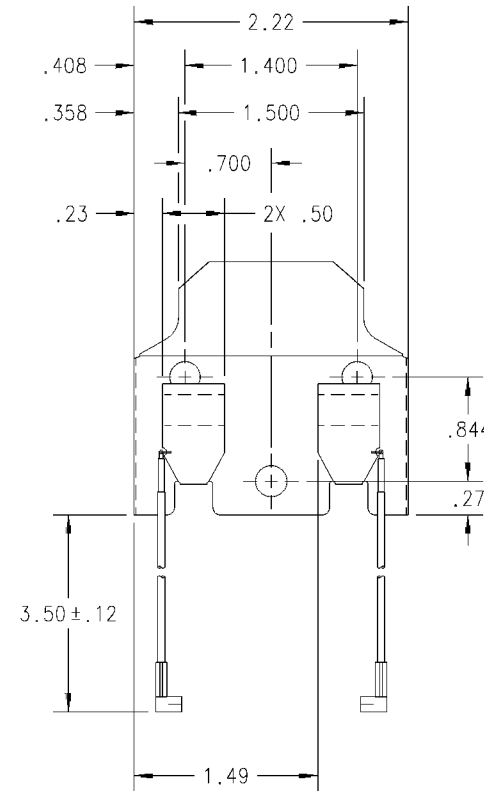
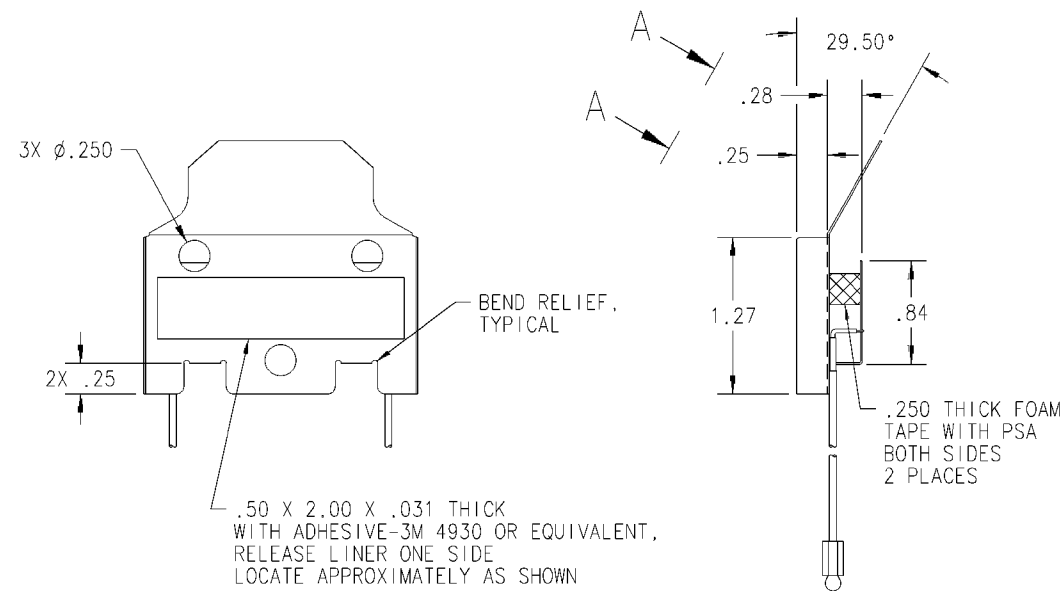


Antenna Installed in Device



Terminal Use Photo

REVISIONS							
REV.	ZONE	△ No.	DESCRIPTION	E.C.	BY	APVD.	DATE
1			INITIAL RELEASE PER PPD #54570		JS		2/15/00



AUX VIEW A-A
SCALE 1:1

SPECIFICATIONS:

FREQUENCY: 2.4-2.485 GHZ
 VSWR: 2.0:1 MAX
 GAIN: 0dB_i NOMINAL
 POLARIZATION: LINEAR
 CABLE: RG178
 CONNECTOR: TYPE MMCX, 50-22100-029

NOTES: UNLESS OTHERWISE SPECIFIED.

- MATERIAL: CRS 1008, .015±.001 THICK.
- ALTERNATE MATERIAL: ELECTROLYTIC TIN PLATED STEEL .015±.001 THICK. EDGE PLATING ON CUT OR SHEARED SURFACES IS NOT REQUIRED.
- FINISH: BRIGHT TIN PLATE PER MIL-T-10727A, TYPE 1, ELECTRO DEPOSITED .00010-.00025 INCHES. FINISH SHALL BE UNIFORM AND EXHIBIT NO EVIDENCE OF CORROSION OR OXIDATION WHEN VIEWED WITH THE UN-AIDED EYE.
- PACKAGE IAW STI GENERAL PACKAGING SPECIFICATION #50-04100-013.
- BREAK AND DEBUR ALL SHARP EDGES .005 MAX PRIOR TO PLATING.
- PART SHALL MEET THE CRITERIA PER STI WORKMANSHIP STANDARD #SS-03800-57.

PROPRIETARY CONTENT		TOLERANCE CHART	
THE DRAWING CONTENT AND SPECIFICATIONS CONTAINED HEREIN ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED OR OTHERWISE DEALT WITH OR COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM SYMBOL TECHNOLOGIES, INC.		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES	
		INCH	MM
.XX	+/-	.03	
.XXX	+/-	.010	
COMPUTER GENERATED DRAWING DO NOT SCALE		ANGLES ± 1°	FRACTIONS ± 1/64

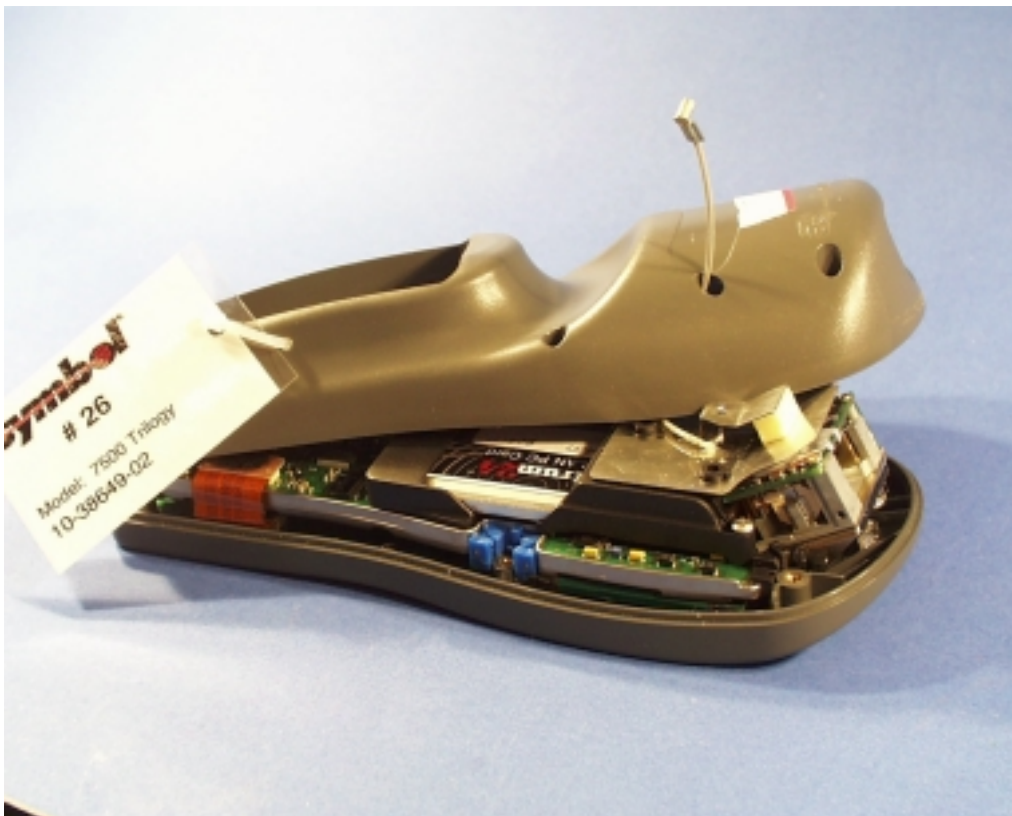
APPROVALS		DATE	SYMBOL TECHNOLOGIES, INC.	
DRAWN	J.SIMMONS	2/15/00	One Symbol Plaza Holtsville, NY 11742	
CHECKED	M.SAVONA	2/15/00		
ENG.	B.ROSECRANT	2/15/00	ANTENNA: 2.4 GHZ, TYPE F, DIVERSITY	
ANALYST	L.DOBKOWSKI	2/15/00		
MFG. ENG.			SIZE	DWG. NO.
PRODUCT			C	10-40948-01
QUALITY			REV	1
SCALE: 1:1		SOLID MODEL	YES	NO
			SHEET 1 OF 1	

7540 / 7546 Antenna

The **7540** antenna is 0 dBi omni-directional in azimuth plane. It is mounted internally on the top end of the terminal as shown in the attached photo. The **7540** uses the MuRatta BFA connector while the **7546** is identical to the **7540** but uses the MMCX connector. In its use it would be within 20 cm of a persons hand but more than 20 cm from the users body. It is used in portable devices. The following RF exposure information is included in a prominent place in the device's user manual to inform the user of safety issues as required by OET Bulletin 65, Supplement C. for EIRP greater than 200 mW.

<i>Location</i>	Hand Held Device
<i>Pattern</i>	Omni
<i>Type</i>	F-Element
<i>Max Gain</i>	0 dBi
<i>Physical</i>	See attached dwg
<i>Cable</i>	MXYH75, RG-178
<i>Symbol P/N</i>	10-38649-01, -02

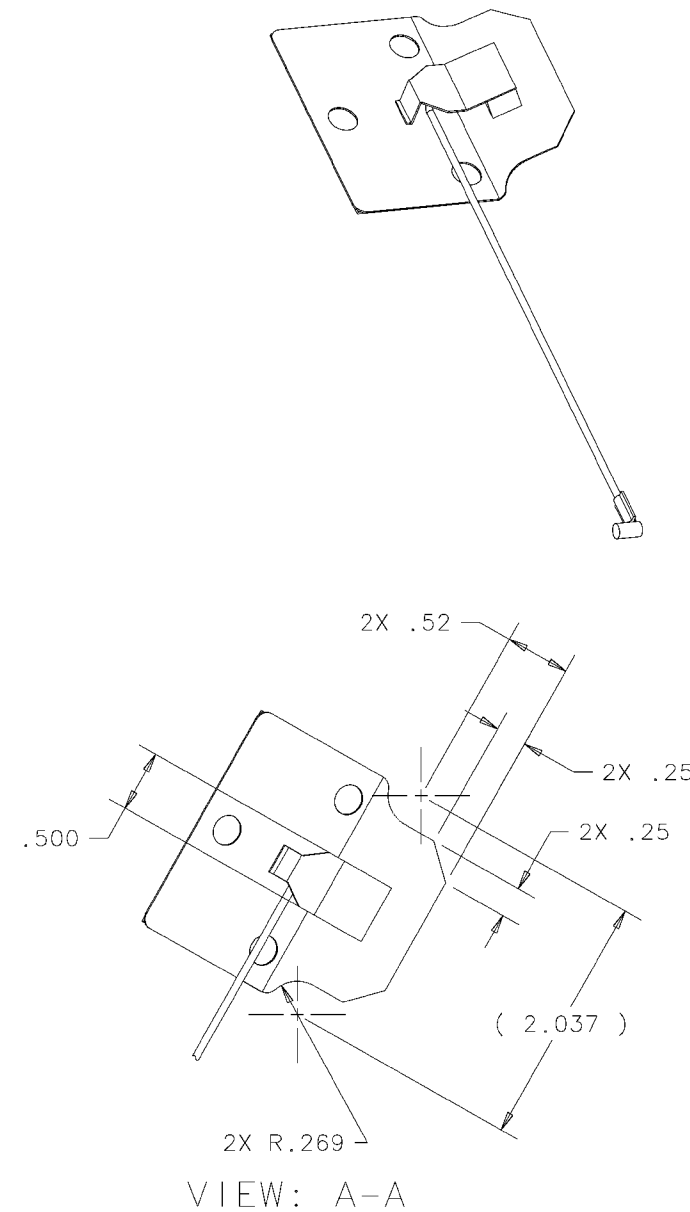
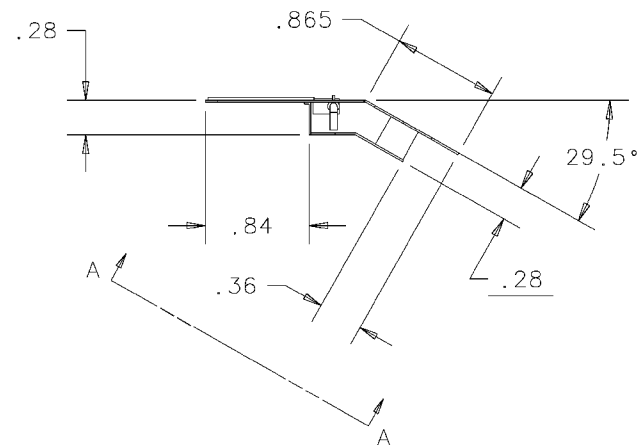
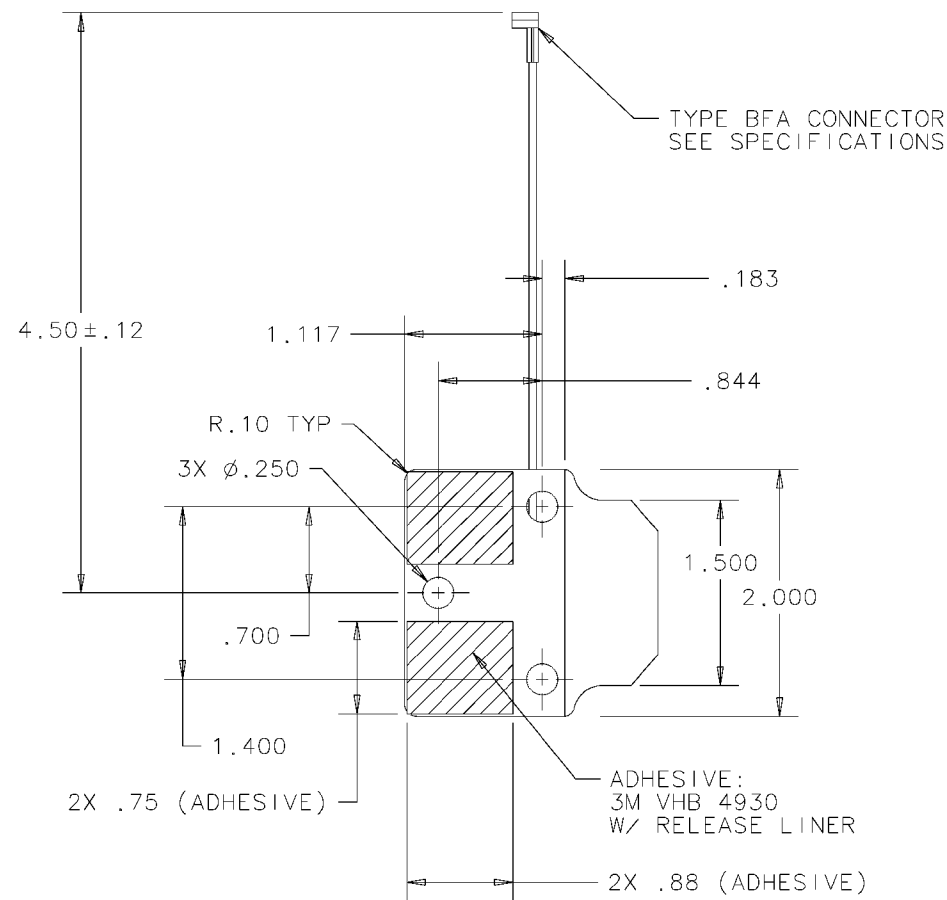
“Important Note: To comply with FCC RF exposure requirements, this hand-held device is approved for operation in a user’s hand when there is 20 cm or more between the antenna and everyone’s body.”



Antenna Installed in Device



Terminal Use Photo



REVISIONS						
REV.	ZONE	△ No.	DESCRIPTION	E.C.	BY	APVD. DATE
A			RELEASED PER EDR #50790		CT	10/5/99

SPECIFICATIONS

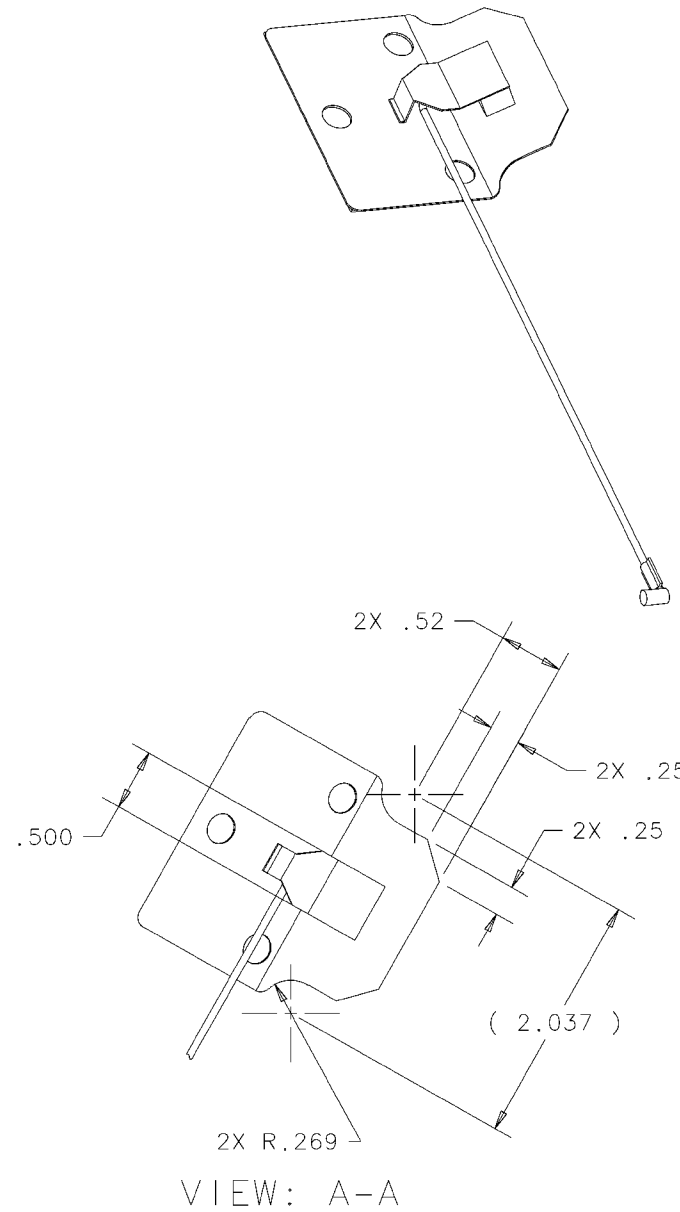
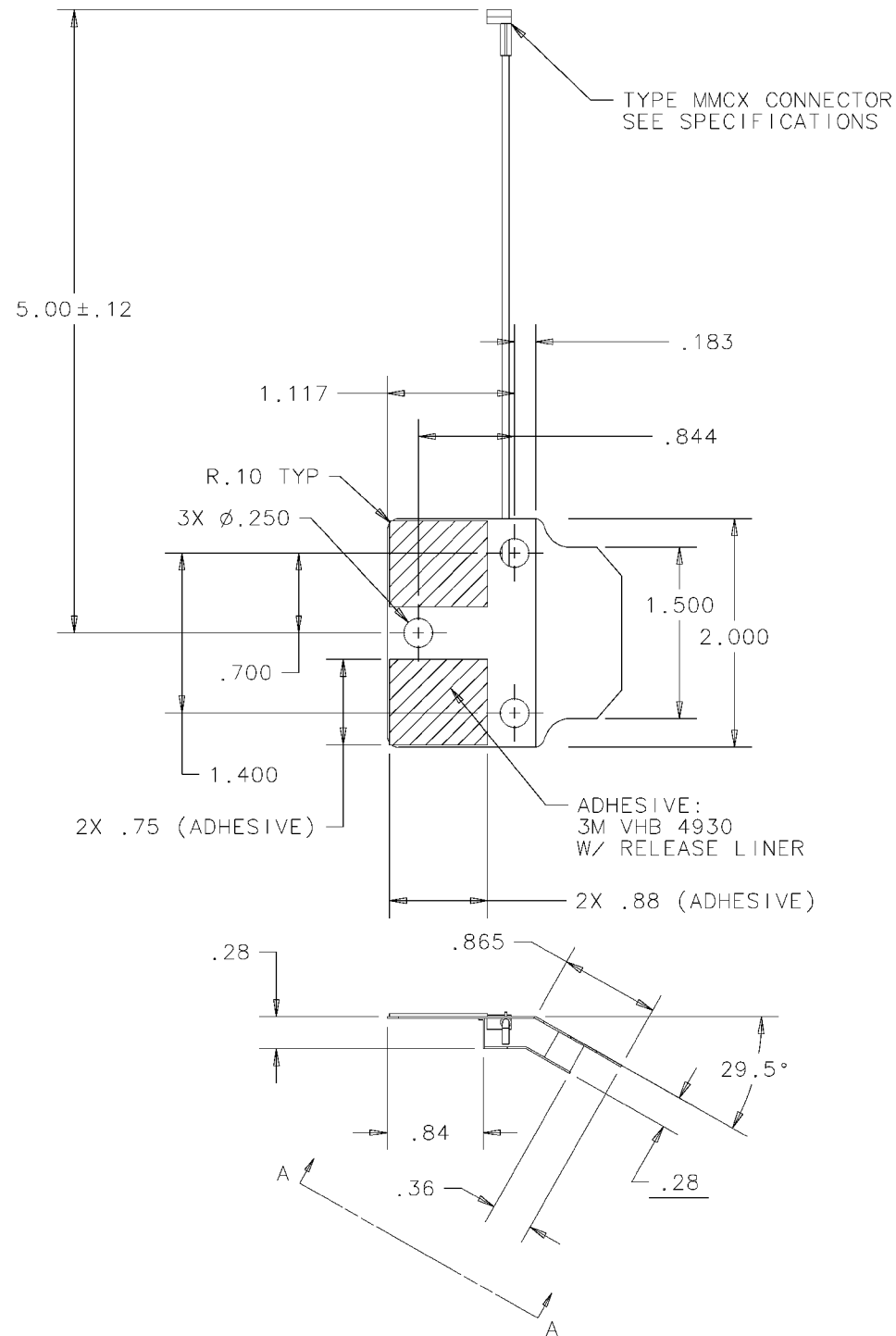
FREQUENCY: 2.4-2.485 GHZ
 VSWR: 2.0:1 MAX
 GAIN: 0dBi NOMINAL
 POLARIZATION: LINEAR
 CABLE: MURATA MXYH75
 CONNECTOR: TYPE BFA

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: CRS 1008, .015 THK
- FINISH: BRIGHT TIN PLATE PER MIL-T-10727A, TYPE1, ELECTRO DEPOSITED .00010-.00025 INCHES. FINISH SHALL BE UNIFORM AND EXHIBIT NO EVIDENCE OF CORROSION OR OXIDATION WHEN VIEWED WITH THE UNAIDED EYE, EDGE PLATING ON CUT OR SHEARED SURFACES IS NOT REQUIRED.
- TOLERANCES: .XX ± .03
.XXX ± .010
ANGLES ± 1°
- PACKAGE IAW SYMBOL PACKAGING SPECIFICATION 40-04100-013
- BREAK AND DEBUR ALL SHARP EDGES .005 MAX PRIOR TO PLATING

ITEM	QTY.	PART NO.	DESCRIPTION	REMARKS/REF. SYMBOL
DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED .XX ± .03 .XXX ± .010 ANGLES ± 1° FRACTIONS ± 1/64 MATERIAL: ----- FINISH: -----				
THE DWG. & SPECIFICATION CONTAINED HEREON ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM SYMBOL TECHNOLOGIES INC.		APPROVALS DRAWN C.THELEMANN 10/5/99 CHECKED M.SAVONA 10/5/99 ENGINEER C.THELEMANN 10/5/99 MFG. ENG. M.LOSPINSKI 10/5/99 PRODUCT T.HOFBAUER 10/5/99 QUALITY B.WATSON 10/5/99		SYMBOL TECHNOLOGIES INC. Bohemia, New York ANTENNA: 2.4 GHz TYPE F 7500
NEXT ASSY		USED ON		DO NOT SCALE DRAWING
SCALE: 1/1		SOLID MODEL		YES NO X
SHEET 1 OF 1		SIZE C		DWG. NO. 10-38649-01 REV. A

REVISIONS							
REV.	ZONE	△	DESCRIPTION	E.C.	BY	APVD.	DATE
A			RELEASED PER EDR #53455		MB		01/10/00



SPECIFICATIONS

FREQUENCY: 2.4-2.485 GHZ
 VSWR: 2.0:1 MAX
 GAIN: 0dBi NOMINAL
 POLARIZATION: LINEAR
 CABLE: RG178
 CONNECTOR: TYPE MMCX, 50-22100-029

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: CRS 1008, .015 ± .001THK
- FINISH: BRIGHT TIN PLATE PER MIL-T-10727A, TYPE1, ELECTRO DEPOSITED .00010-.00025 INCHES. FINISH SHALL BE UNIFORM AND EXHIBIT NO EVIDENCE OF CORROSION OR OXIDATION WHEN VIEWED WITH THE UNAIDED EYE, EDGE PLATING ON CUT OR SHEARED SURFACES IS NOT REQUIRED.
- TOLERANCES: .XX ± .03
.XXX ± .010
ANGLES ± 1°
- PACKAGE LAW SYMBOL PACKAGING SPECIFICATION 40-04100-013
- BREAK AND DEBUR ALL SHARP EDGES .005 MAX PRIOR TO PLATING

ITEM	QTY.	PART NO.	DESCRIPTION	REMARKS/REF. SYMBOL																																								
<table border="1"> <tr> <td rowspan="4" style="font-size: small;"> THE DWG. & SPECIFICATION CONTAINED HEREON ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM SYMBOL TECHNOLOGIES INC. </td> <td colspan="2">DIMENSIONS ARE IN INCHES</td> <td>APPROVALS</td> <td>DATE</td> <td rowspan="4" style="text-align: center;"> SYMBOL TECHNOLOGIES INC. Bohemia, New York ANTENNA: 2.4 GHz TYPE F </td> </tr> <tr> <td colspan="2">UNLESS OTHERWISE SPECIFIED</td> <td>DRAWN M. BUNYON</td> <td>01/10/00</td> </tr> <tr> <td>.XX</td> <td>+/-</td> <td>+/- .01</td> <td>CHECKED M. SAVONA</td> <td>01/10/00</td> </tr> <tr> <td>.XXX</td> <td>+/-</td> <td>+/- .005</td> <td>ENGINEER C. THELEMANN</td> <td>01/10/00</td> </tr> <tr> <td colspan="2">ANGLES ± 1° FRACTIONS ± 1/64</td> <td>MFG. ENG.</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">MATERIAL: _____</td> <td>PRODUCT</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">FINISH: _____</td> <td>QUALITY</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">ANALYST L. DOBKOWSKI</td> <td>01/10/00</td> <td colspan="2"></td> </tr> </table>					THE DWG. & SPECIFICATION CONTAINED HEREON ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM SYMBOL TECHNOLOGIES INC.	DIMENSIONS ARE IN INCHES		APPROVALS	DATE	SYMBOL TECHNOLOGIES INC. Bohemia, New York ANTENNA: 2.4 GHz TYPE F	UNLESS OTHERWISE SPECIFIED		DRAWN M. BUNYON	01/10/00	.XX	+/-	+/- .01	CHECKED M. SAVONA	01/10/00	.XXX	+/-	+/- .005	ENGINEER C. THELEMANN	01/10/00	ANGLES ± 1° FRACTIONS ± 1/64		MFG. ENG.			MATERIAL: _____		PRODUCT			FINISH: _____		QUALITY			ANALYST L. DOBKOWSKI		01/10/00		
THE DWG. & SPECIFICATION CONTAINED HEREON ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM SYMBOL TECHNOLOGIES INC.	DIMENSIONS ARE IN INCHES		APPROVALS	DATE		SYMBOL TECHNOLOGIES INC. Bohemia, New York ANTENNA: 2.4 GHz TYPE F																																						
	UNLESS OTHERWISE SPECIFIED		DRAWN M. BUNYON	01/10/00																																								
	.XX	+/-	+/- .01	CHECKED M. SAVONA			01/10/00																																					
	.XXX	+/-	+/- .005	ENGINEER C. THELEMANN	01/10/00																																							
ANGLES ± 1° FRACTIONS ± 1/64		MFG. ENG.																																										
MATERIAL: _____		PRODUCT																																										
FINISH: _____		QUALITY																																										
ANALYST L. DOBKOWSKI		01/10/00																																										
		PDT 754X																																										
		NEXT ASSY	USED ON	DO NOT SCALE DRAWING																																								

SIZE	DWG. NO.	REV.
C	10-38649-02	A
SCALE: 1:1	SOLID MODEL	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
SHEET 1 OF 1		

6840/ 6846 Antenna

The **6840** antenna is 0 dBi omni-directional in azimuth plane. It is mounted internally on the top end of the terminal as shown in the attached photo. The **6840** uses a Murata Erie BFA connector while the **6846** uses the MMCX. In its use it would be within 20 cm of a persons hand but more than 20 cm from the users body. It is used in portable devices. The following RF exposure information is included in a prominent place in the device's user manual to inform the user of safety issues as required by OET Bulletin 65, Supplement C for EIRP greater than 200 mW.

<i>Location</i>	Hand Held Device
<i>Pattern</i>	Omni
<i>Type</i>	F-Element
<i>Max Gain</i>	0 dBi
<i>Physical</i>	See attached dwg
<i>Cable</i>	MXYH75, RG-178
<i>Symbol P/N</i>	10-32290-01, -02

“Important Note: To comply with FCC RF exposure requirements, this hand-held device is approved for operation in a user’s hand when there is 20 cm or more between the antenna and everyone’s body.”



Antenna Installed in Device



Terminal Use Photo

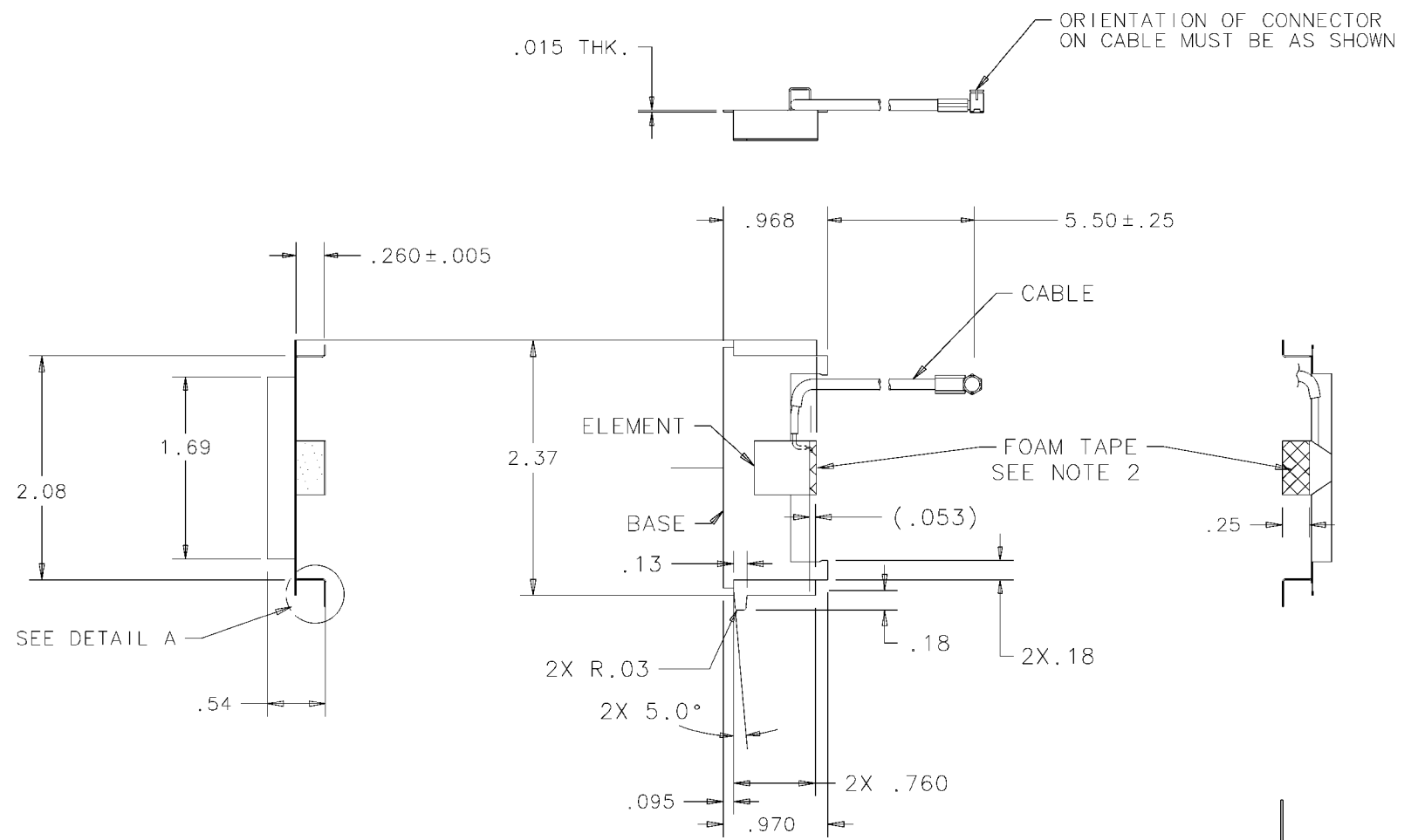
4

3

2

1

REVISIONS							
REV.	ZONE	△	DESCRIPTION	E.C.	BY	APVD.	DATE
A	ALL	△	RELEASED PER EDR 39215	△	LM		
B		△	REVISED PER ECN	4418	RM		
C		△	DIM 2.37 WAS 2.30	E4874	LM		
D		△	ADDED DIM 2X.18 PER EC	E5856	MB		

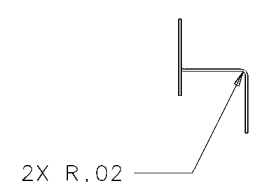


SPECIFICATIONS

FREQUENCY: _____ 2.4 TO 2.485 GHZ
 VSWR: _____ 2.0:1
 GAIN _____ 0 dBi NOM
 IMPEDANCE: _____ 50 OHMS
 CABLE/CONNECTOR: _____ TECOM 817283-X
 MURATA ERIE
 MXYH62-XX-XXXX

NOTE:

1. PACKAGE ITEMS IN ACCORDANCE WITH STI GENERAL PACKAGING SPEC 50-04100-013.
2. ADHESIVE TO BE 3M DOUBLE-SIDED SCOTCH 4026 URETHANE FOAM TAPE (.062 THICK) WITH POLY COATED LINER OR EQUIVALENT.



DETAIL A
(2 PL)

ITEM	QTY.	PART NO.	DESCRIPTION	REMARKS/REF. SYMBOL
SYMBOL TECHNOLOGIES INC. Bohemia, New York				
ANTENNA: 2.4 GHZ				
THE DWG. & SPECIFICATION CONTAINED HEREON ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM SYMBOL TECHNOLOGIES INC.		DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED .XX +/- .01 .XXX +/- .005 ANGLES ± 1° FRACTIONS ± 1/64	APPROVALS DRAWN LJM 12/23/97 CHECKED J CHAN ENGINEER J CHAN MFG. ENG S SPITERI	DATE 12/23/97
MATERIAL: SEE NOTE FINISH: SEE NOTE		PRODUCT M SAVONA QUALITY	SIZE C DWG. NO. 10-32290-01 SCALE: FULL	REV. D SHEET 1 OF 1
NEXT ASSY USED ON DO NOT SCALE DRAWING		YES NO <input type="checkbox"/> <input type="checkbox"/>		

4

3

2

1

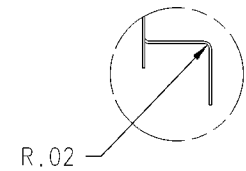
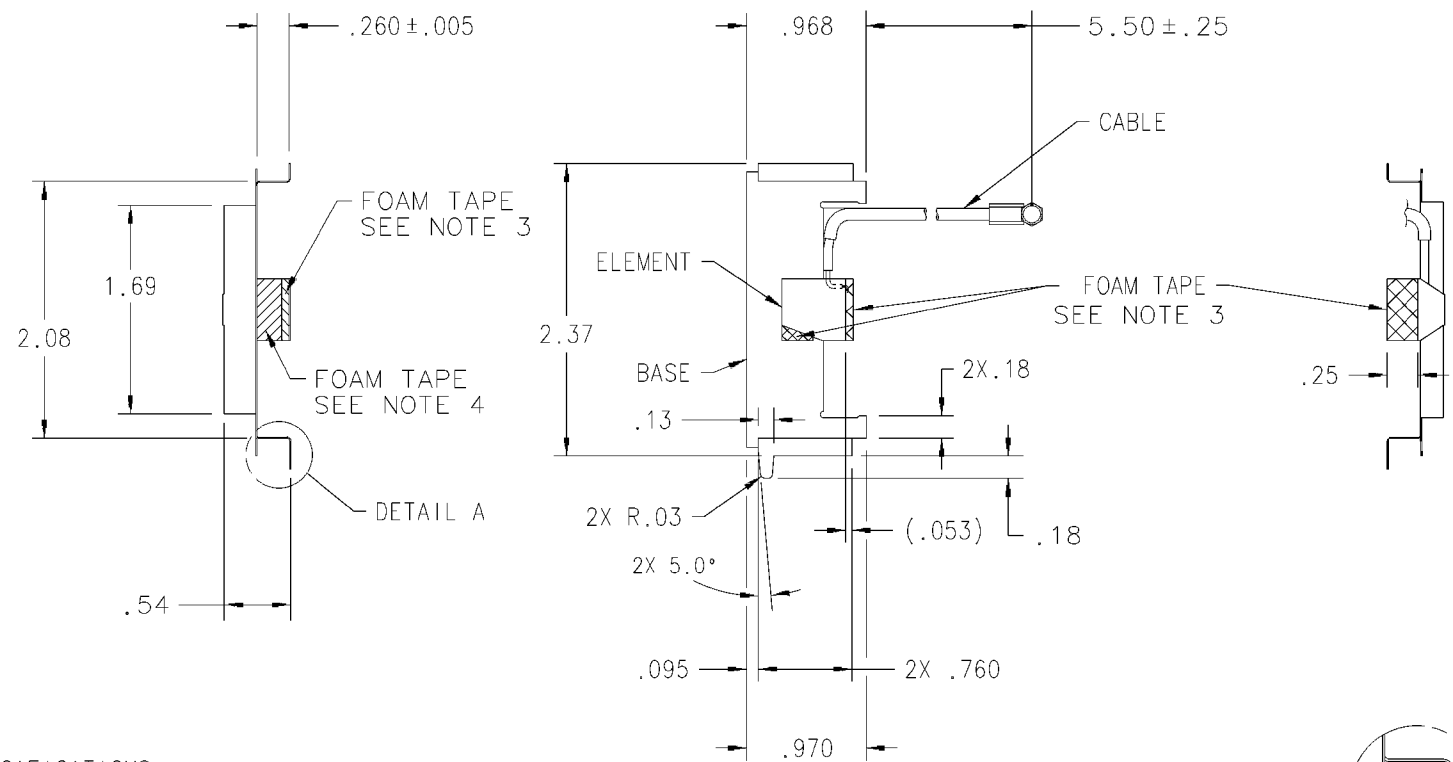
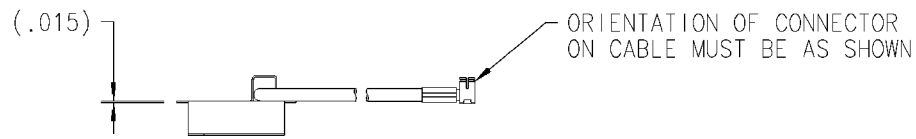
4

3

2

1

REVISIONS							
REV.	ZONE	△	DESCRIPTION	E.C.	BY	APVD.	DATE
A			RELEASED PER EDR #53958		MB		01/27/00



DETAIL A
SCALE 2:1
2 PLACES

SPECIFICATIONS:

- FREQUENCY: _____ 2.4 TO 2.485 GHz
- VSWR: _____ 2.0:1
- GAIN: _____ 0 dBi NOM
- IMPEDANCE: _____ 50 OHMS
- CABLE/CONNECTOR: _____ RG178
50-22100-029 (MMCX)

NOTES: UNLESS OTHERWISE SPECIFIED.

- 1) MATERIAL: CRS 1008, .015 ± .001 THICK
- 2) FINISH: BRIGHT TIN PLATE PER MIL-T-10727A, TYPE 1 ELECTRO DEPOSITED .00010-.00025 INCHES. FINISH SHALL BE UNIFORM AND EXHIBIT NO EVIDENCE OF CORROSION OR OXIDATION WHEN VIEWED WITH THE UNAIDED EYE. EDGE PLATING ON CUT OR SHEARED SURFACES IS NOT REQUIRED.
- 3) FOAM TAPE TO BE 3M DOUBLE-SIDED SCOTCH 4026 (.062 THICK) WITH POLY COATED LINER OR EQUIVALENT.
- 4) FOAM TAPE TO BE DOUBLE-SIDED SCOTCH 4008 (.125 THICK) WITH POLY COATED LINER OR EQUIVALENT.
- 5) PARTS SHALL MEET THE CRITERIA PER STI WORKMANSHIP STANDARD SS-03800-57.
- 6) PACKAGE ITEMS IN ACCORDANCE WITH STI GENERAL PACKAGING SPEC #50-04100-013.

APPROVALS		DATE	SYMBOL TECHNOLOGIES INC.	
DRAWN	J. SIMMONS	11/3/99	One Symbol Plaza Holtsville, NY 11742	
CHECKED	M. SAVONA	11/3/99		
ENGINEER	B. ROSENKRANTZ	11/3/99	ANTENNA: 2.4 GHZ, MMCX	
ANALYST	L. DOBKOWSKI	11/3/99		
MFG. ENG.			SIZE	DWG. NO.
PRODUCT			C	10-32290-02
QUALITY			SCALE: 1:1	SOLID MODEL <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			SHEET 1 OF 1	

* PROPRIETARY CONTENT * THE DRAWING CONTENT AND SPECIFICATION CONTAINED HEREIN ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED OR OTHERWISE DEALT WITH OR COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM: SYMBOL TECHNOLOGIES INC. COMPUTER GENERATED DRAWING DO NOT SCALE				TOLERANCE CHART *UNLESS OTHERWISE SPECIFIED* DIMENSIONS ARE IN INCHES <table border="1"> <tr> <th></th> <th>INCH</th> <th>MM</th> </tr> <tr> <td>.XX</td> <td>+/- .01</td> <td>+/- .25</td> </tr> <tr> <td>.XXX</td> <td>+/- .005</td> <td>+/- .125</td> </tr> </table> ANGLES ± 1° FRACTIONS ± 1/64					INCH	MM	.XX	+/- .01	+/- .25	.XXX	+/- .005	+/- .125
	INCH	MM														
.XX	+/- .01	+/- .25														
.XXX	+/- .005	+/- .125														

4

3

2

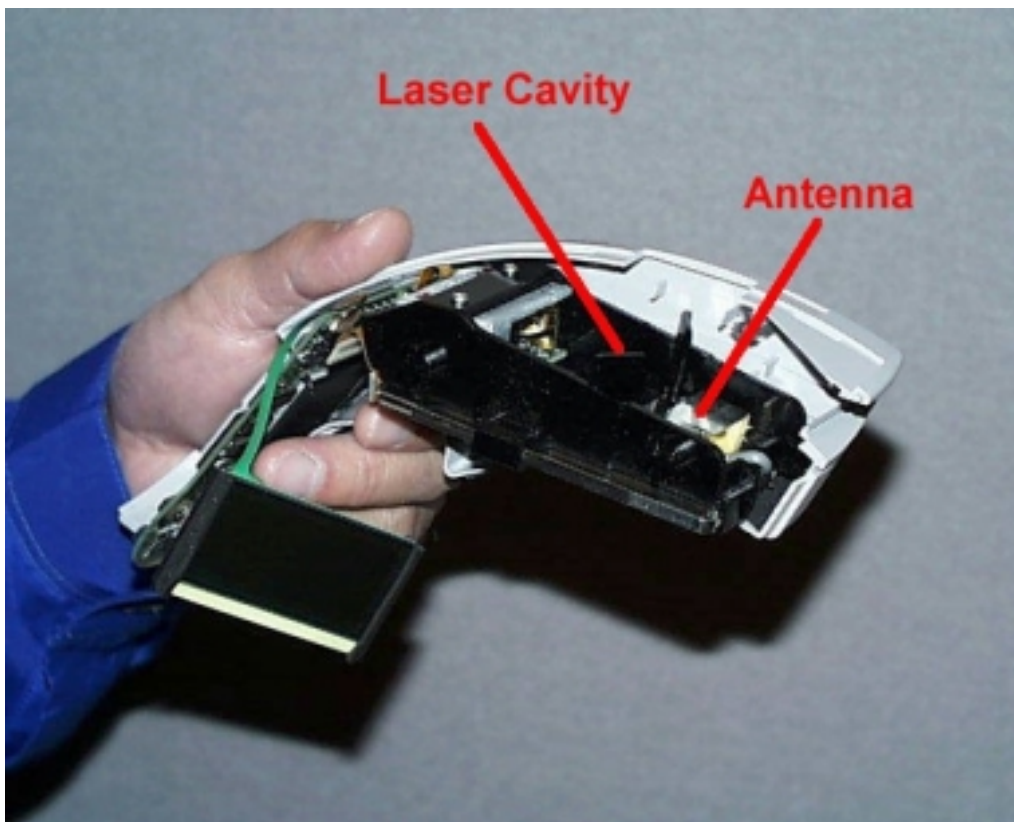
1

2040 / 2042 Antenna

The **2040** antenna is 0 dBi omni-directional in azimuth plane. It is mounted internally on the top end of the terminal as shown in the attached photo. In its use it would be within 20 cm of a persons hand but more than 20 cm from the users body. It is used in portable devices. The **2042** uses the MMCX connector instead of the MuRata BFA. The following RF exposure information is included in a prominent place in the device's user manual to inform the user of safety issues as required by OET Bulletin 65, Supplement C for EIRP greater than 200 mW.

<i>Location</i>	Hand Held
<i>Pattern</i>	Omni
<i>Type</i>	F-Element
<i>Max Gain</i>	< 0 dBi
<i>Physical</i>	See Attached Dwg.
<i>Cable</i>	MXYH75, RG-178
<i>Symbol P/N</i>	10-17577-01, -03

“Important Note: To comply with FCC RF exposure requirements, this hand-held device is approved for operation in a user’s hand when there is 20 cm or more between the antenna and everyone’s body.”

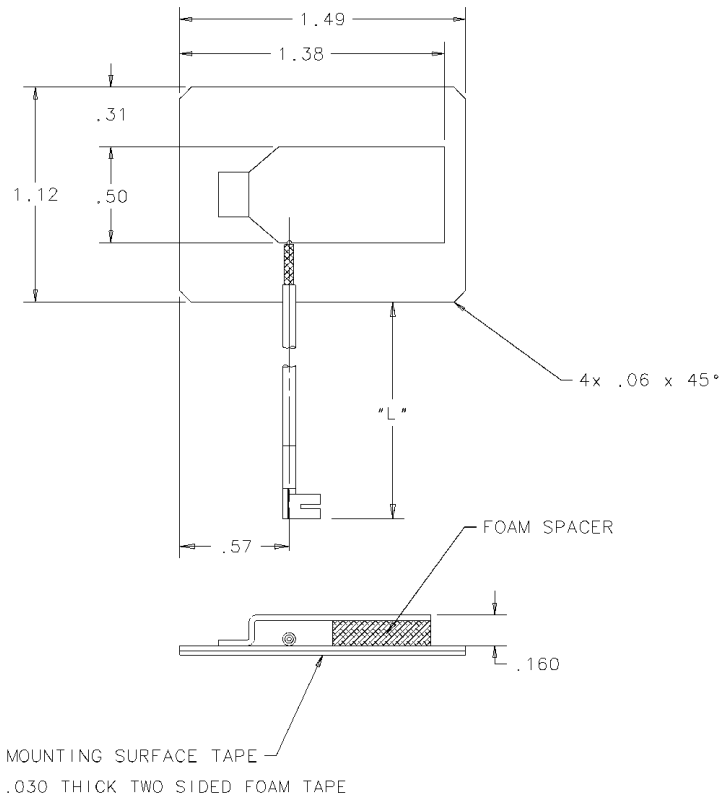


Antenna Installed in Device



Terminal Use Photo

REVISIONS						
REV.	ZONE	DESCRIPTION	E.C.	BY	APVD.	DATE
D		RELEASED PER EDR 36626		LM		



SPECIFICATIONS

FREQUENCY: 2400-2485 MHz
 VSWR: 2:1
 GAIN: 0dbi NOMINAL
 CABLE/CONNECTOR: TECOM 817283-6
 MXYH62XXXXXXXXX

DASH #	PRODUCT	*L*	REV
-01	ASTERIX	.80	D
-02	COBALT	2.00 ±.03	D

NOTES: UNLESS OTHERWISE SPECIFIED:

- PACKAGE ITEMS IN ACCORDANCE WITH STI GENERAL PACKAGING SPEC #50-04100-013.

ITEM	QTY.	PART NO.	DESCRIPTION	REMARKS/REF. SYMBOL																																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td rowspan="4" style="width: 20%; vertical-align: top;"> <small>THE DWG. & SPECIFICATION CONTAINED HEREON ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM SYMBOL TECHNOLOGIES INC.</small> </td> <td colspan="2">DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED</td> <td>APPROVALS</td> <td>DATE</td> <td rowspan="4" style="text-align: center; vertical-align: middle;"> SYMBOL TECHNOLOGIES INC. Bohemia, New York ANTENNA TYPE F ASTERIX/COBALT </td> </tr> <tr> <td colspan="2"></td> <td>DRAWN LJM</td> <td>1/22/98</td> </tr> <tr> <td colspan="2"></td> <td>CHECKED F GONG</td> <td></td> </tr> <tr> <td colspan="2"></td> <td>ENGINEER F GONG</td> <td></td> </tr> <tr> <td colspan="2"></td> <td> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>MM</td> <td>INCH</td> </tr> <tr> <td>.XX</td> <td>+/-</td> <td>+/- .01</td> </tr> <tr> <td>.XXX</td> <td>+/-</td> <td>+/- .005</td> </tr> </table> </td> <td>W/C. ENG. F MAZURKIEWICZ</td> <td></td> </tr> <tr> <td colspan="2"></td> <td>MATERIAL: SEE NOTE</td> <td>PRODUCT T HOFBAUER</td> <td>QUALITY</td> <td> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>SIZE C</td> <td>DWG. NO. 10-17577-XX</td> <td>REV. D</td> </tr> </table> </td> </tr> <tr> <td colspan="2"></td> <td>FINISH: SEE NOTE</td> <td></td> <td></td> <td> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>SCALE: FULL</td> <td>SOLID MODEL</td> <td>YES NO</td> <td>SHEET 1 OF 1</td> </tr> </table> </td> </tr> </table>					<small>THE DWG. & SPECIFICATION CONTAINED HEREON ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM SYMBOL TECHNOLOGIES INC.</small>	DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED		APPROVALS	DATE	SYMBOL TECHNOLOGIES INC. Bohemia, New York ANTENNA TYPE F ASTERIX/COBALT			DRAWN LJM	1/22/98			CHECKED F GONG				ENGINEER F GONG				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>MM</td> <td>INCH</td> </tr> <tr> <td>.XX</td> <td>+/-</td> <td>+/- .01</td> </tr> <tr> <td>.XXX</td> <td>+/-</td> <td>+/- .005</td> </tr> </table>		MM	INCH	.XX	+/-	+/- .01	.XXX	+/-	+/- .005	W/C. ENG. F MAZURKIEWICZ				MATERIAL: SEE NOTE	PRODUCT T HOFBAUER	QUALITY	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>SIZE C</td> <td>DWG. NO. 10-17577-XX</td> <td>REV. D</td> </tr> </table>	SIZE C	DWG. NO. 10-17577-XX	REV. D			FINISH: SEE NOTE			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>SCALE: FULL</td> <td>SOLID MODEL</td> <td>YES NO</td> <td>SHEET 1 OF 1</td> </tr> </table>	SCALE: FULL	SOLID MODEL	YES NO	SHEET 1 OF 1
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