

RM182 Host Device and Antenna List

The table below shows the different host devices Model RM182 radio module will be integrated into and the antennas that will be used in conjunction with those hosts.

Drawings showing specifications and pictures of the antennas are filed in a separate exhibit.

Host Device	Function	Antenna	Part Number	Gain (dBi)
Model 2415	Handheld Terminal	Patch	590995	4.5
		Patch/Dipole	069769 (*)	0
Model T2425	Handheld Terminal	Tuned Dipole	063825	1.5
Model T2455	Vehicle Mount Terminal	Tuned Dipole	066147	1.0
Model T2485/86	Stationary Terminal	Same as Model T2455	See Model T2455	See Model T2455
Model 5020	Handheld Data Collection Computer	Tuned Dipole	066619	1.5
Model 5055	Vehicle Mount Data Collection Computer	Tuned Dipole	805-544 (*)	2.0
Model 6400	Handheld Data Collection Computer	Same as Model 2415	See Model 2415	See Model 2415
Model 2100	Access Point	Same as Model T2455	See Model T2455	See Model T2455
		Omni	065349 (*)	9
		Omni	063363	5
		Patch	067262	5
		Patch	067263 (*)	9
		Patch	067261	3

Host Device	Function	Antenna	Part Number	Gain (dBi)
Model 2101	Access Point	Same antennas as Model 2100	See Model 2100	See Model 2100
		Tuned Dipole	069753	1.5
Model 2102	Access Point	Tuned Dipole	070142	1.5
Model 6110	Handheld Data Collection Computer	Same as Model 5055	See Model 5055	See Model 5055
Model 6640	PenKey Data Collection Computer	Same as Model 5055	See Model 5055	See Model 5055
Model 6650	PenKey Data Collection Computer	Same as Model 5055	See Model 5055	See Model 5055

(*) marked antennas have been tested for spurious emissions and EIRP, since these are the highest gain representative of each antenna type.

1

2

3

4

APPROVED SOURCE(S) OF SUPPLY

SUPPLIER	PART NUMBER
1. RADIAL	R380.500.010
2.	
3.	
4.	
5.	
6.	

REV	DESCRIPTION	DATE	DRAWN & APPROVED
B	-001 RELEASED AT REV B		

NOTES: UNLESS OTHERWISE SPECIFIED

1. REFER TO THE MANUFACTURER'S SPECIFICATIONS FOR COMPLETE DESIGN PARAMETERS.

2. MINIMUM MARKING REQUIREMENTS SHALL CONSIST OF THE MANUFACTURER'S PART NUMBER AND ID.

3. CHANGES REQUIRE SAC APPROVAL.

4. SPECIFICATIONS:

CENTER FREQUENCY: 2480 MHz

FREQ BANDWIDTH: 100 MHz

NOM IMPEDANCE: 50 OHM

VSWR: 2:1 MAX

GAIN: 4.5 dB MIN @ ZENITH

3 dB BEAMWIDTH: 85°

FRONT TO BACK RATIO: 14 dB MIN

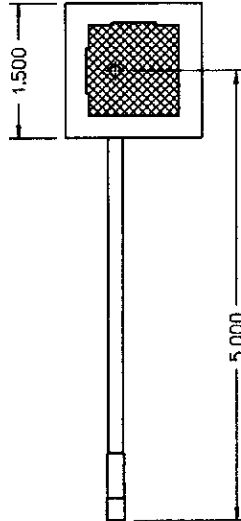
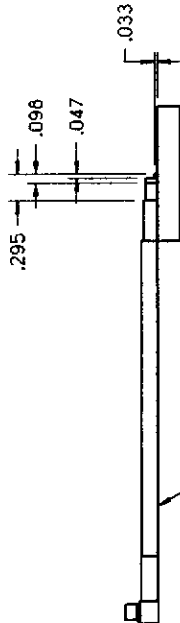
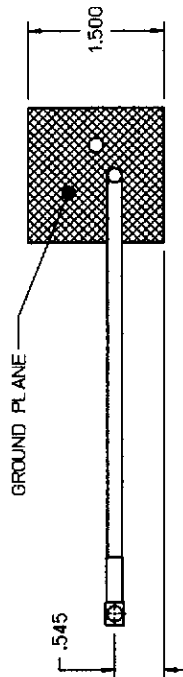
POLARISATION: VERTICAL

CERAMIC CHARACTERISTICS: POROSITY: 0

PERMITTIVITY: 6

LOSS FACTOR: 0.002 MAX

CONNECTOR TYPE: MMCX RIGHT ANGLE PLUG



SOURCE CONTROL DRAWING

CAD DBREF: 590995.1.b

SYSTEM - H

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

.XX *

.XXX * .010

ANGLES *

APPROVALS	DATE
DRAWN RHOAGLUND	03-15-99
CHECKED JLEE	03-29-99
RESP ENG T BENSON	04-01-99
OA	
MF6 ENG V LOR	04-13-99
SAC KEROGLU	03-29-99
CE/ID RKELLY	04-02-99

Intermec
Technologies Corporation
6001 36TH AVENUE WEST
EVERETT, WA 98203-9280

TITLE ANTENNA, MICROPATCH,
SINGLE MMCX

SIZE	CAGE CODE	DRAWING NUMBER	REV
C	33825	590995	B

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-001

1

2

3

4

APPROVED SOURCE(S) OF SUPPLY

SUPPLIER PART NUMBER

1. LODAN 008934

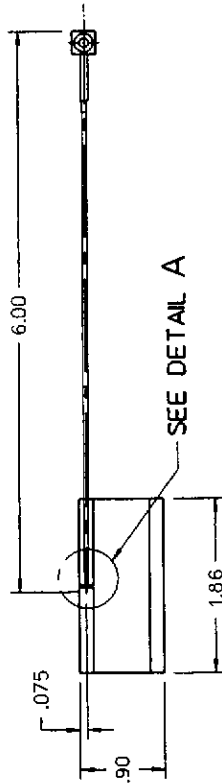
2.

3.

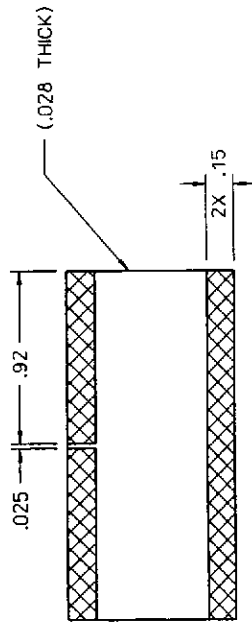
4.

5.

6.

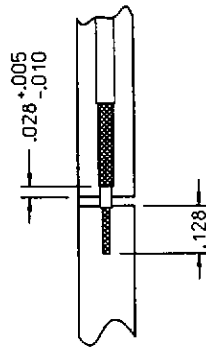


SEE DETAIL A



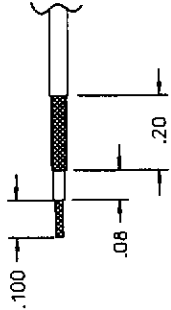
DETAIL B

SCALE: 2/1



DETAIL A

SCALE: 4/1



STRIP LENGTH

SCALE: 4/1

SOURCE CONTROL DRAWING

CAD DBREF- 069769, 1.d

SYSTEM - 1HP

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

XX * .02

XXX * .010

ANGLES *

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-001

Intermec
Technologies Corporation

6001 36TH AVENUE WEST
EVERETT, WA 98203-9280

TITLE

ANTENNA, DIPOLE, PCB

SIZE

CAGE CODE

DRAWING NUMBER

069769

REV

D

SCALE

1/1

SHEET

1 OF 1

REVISIONS

REV	DESCRIPTION	DATE	DRAWN & APPROVED
C	-001 RELEASED AT REV C	09-23-99	RHOAGLUND GMD
D	-001 PER ECN 100871	09-23-99	RHOAGLUND GMD

NOTES: UNLESS OTHERWISE SPECIFIED

1. SPECIFICATIONS:

FREQUENCY: 2.5-2.5 GHz

VSWR: 2:1 (RL 10dB)

GAIN: ~ 0dB

IMPEDANCE: 50 OHMS OMNIDIRECTIONAL

2. BAG PARTS 25 MAX PER BAG AND MARK BAG WITH 069769 AND DASH NUMBER TO WHICH MANUFACTURED PER SPECIFICATION 606427.

3. CHANGES REQUIRE SAC APPROVAL.

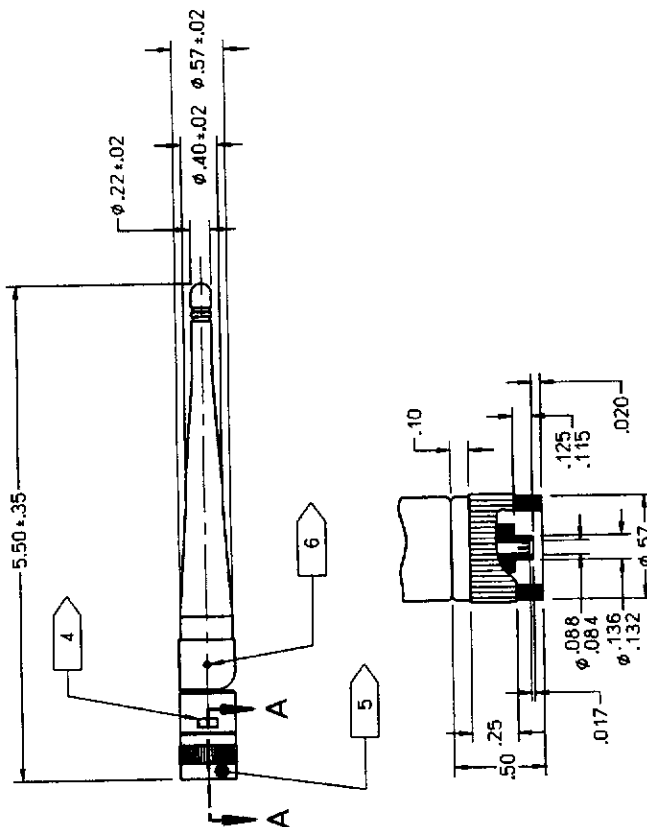
4. HATCHED AREAS TO BE COPPER. SEE DETAIL B.

5. CONNECTOR TYPE: MMCX RIGHT ANGLE PLUG.

APPROVED SOURCE(S) OF SUPPLY

SUPPLIER PART NUMBER
1. CENTURION 066147-001

1.	CENTURION	066147-001
2.		
3.		
4.		
5.		
6.		



SECTION A-A

SCALE 2/1

-001

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REV	DESCRIPTION	DATE	DRAWN & APPROVED
B	-001 RELEASED AT REV B	03-07-98	JLEE RCH
C	-001 PER EGN 027276	04-09-99	JLEE MB
D	-001 PER EGN 100361		

NOTES: UNLESS OTHERWISE SPECIFIED

- BAG PARTS (25 MAX PER BAG) AND MARK BAG WITH 066147 AND DASH NUMBER TO WHICH MANUFACTURED PER SPECIFICATION 606427.
- SPECIFICATIONS: FREQUENCY RANGE 2.4-2.5 GHz
GAIN: 1.0 dBi
OPERATING TEMPERATURE: -40°C TO +85°C
FLEX TEST: PER 0EAO014
PULL TEST: 20 LB LINEAR PULL
TORQUE TEST: 20 IN-LB
POWER RATING: 50 WATTS
VSWR 1.5:1 MAX AT RESONANCE
- CHANGES REQUIRE SAC APPROVAL.
PART MARKED WITH AØ1.
THIS PIECE IS FREE TO ROTATE 360°.
FREE TO ROTATE 90° (DOWNWARD) ABOUT THIS PIVOT.
LOOKS IN 0° AND 90° POSITION.
ALL PARTS OF ASSEMBLY ARE TO BE MOLDED BLACK OR BLACK CHROME.

SOURCE CONTROL DRAWING

CAD DBREF - 066147.1.d
SYSTEM - HP/ME30

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

XX ± .03

XXX ± .010

ANGLES *

APPROVALS

DRAWN G. RAVEN

CHECKED RHOAGLUND

RESP ENG T. BENSON

QA T. ANDERSON

MFG ENG V. LORR

SAC QDREW

CMPT ENG R. KELLY

DATE 7-11-97

DATE 10-29-97

DATE 11-10-97

DATE 11-6-97

DATE 10-30-97

DATE 11-4-97

Intermec

6001 36TH AVENUE WEST
EVERETT, WA 98203-9280

TITLE ANTENNA, TNC, 2.4 GHz,
DIPOLE, 248X

SIZE C 33825

SIZE C 33825

SCALE 1/1

SHEET 1 OF 1

5.0 Antenna Specifications:

Antenna Type: Flexible Whip

Frequency Range: 2.4 – 2.5GHz

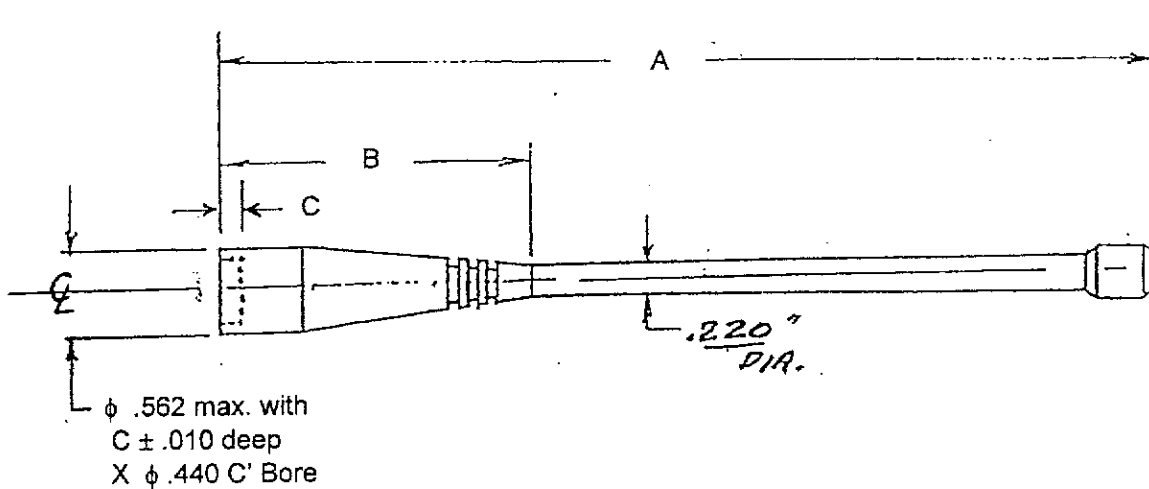
Gain: 2.0 dbi

Component Specifications:

- a) **Mount:** Reverse polarity SMA connector, with white dielectric.
- b) **Radiator:** RG – 178 / U 50 Ohm Coaxial Cable
- c) **Overmold:** Black 80A durometer flexible vinly body,
molded over radiator and mount, cap adhesive bonded to body.

-001: A = $3.69 \pm .100$
B = $2.19 \pm .010$
C = $0.25 \pm .010$

-002: A = $3.57 \pm .100$
B = $2.08 \pm .010$
C = $0.135 \pm .010$



All Dimensions in Inches, Not to Scale.

APPROVED SOURCE(S)

SUPPLIER PART NUMBER

1. CUSCRAFT	S24036PT2RNF	7
2.		
3.		
4.		
5.		
6.		

REV.	DESCRIPTION	DATE	BY	STATUS	REVISION	SHEET
C	.001 RELEASED AT REV. C	8-27-96		0	1	1
D	.001 PER EON 075344					

1. CUSCRAFT	S24036PT2RNF	7
2.		
3.		
4.		
5.		
6.		

1. CUSCRAFT	S24036PT2RNF	7
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1. CUSCRAFT	S24036PT2RNF	7
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1. CUSCRAFT	S24036PT2RNF	7
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6.		

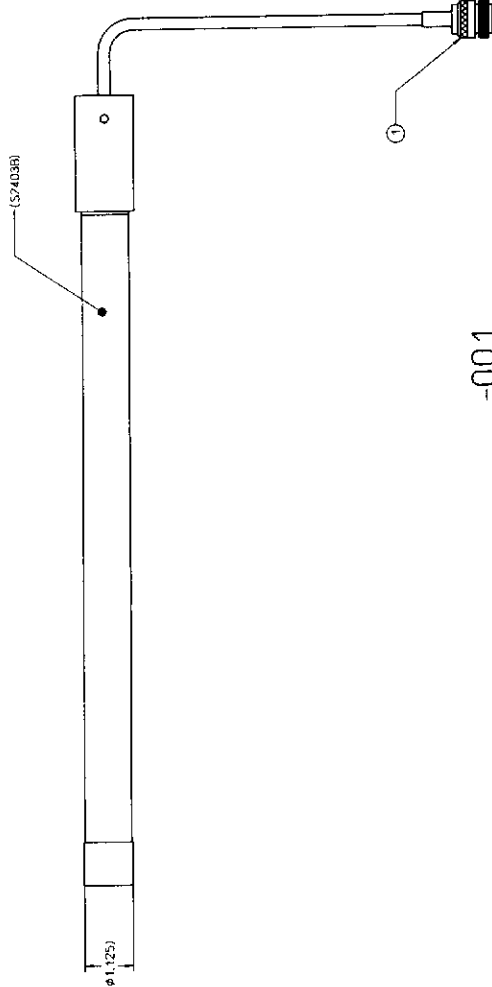
1. CUSCRAFT	S24036PT2RNF	7
2.		
3.		
4.		
5.		
6.		

1. CUSCRAFT	S24036PT2RNF	7
2.		
3.		
4.		
5.		
6.		

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: POLYCARBONATE.
2. REMOVE ALL BURRS AND SHARP EDGES.
3. COSMETIC REQUIREMENTS PER SPECIFICATION 044856, APPENDIX C, CATEGORY II, CLASS B.
4. BAG PARTS AND MARK BAG WITH 063363 PER SPECIFICATION 506477. DO NOT MARK DASH NUMBER.
5. CHANGES REQUIRE SAC APPROVAL.
6. SPECIFICATION:
FREQUENCY RANGE: 2400-2500MHZ
IMPEDANCE: 50 OHMS (NOMINAL)
GAIN: 3dB (REFERENCED TO DIPOLE)
BANDWIDTH: 100 (REFERENCED TO ISOTROPIC)
VSWR: 1.5:1 (2400-2500MHZ)
WIND SURVIVAL: 125MPH
POWER RATING: 50 WATTS MAX

7 MOUNTING HARDWARE KIT AND INSTRUCTIONS INCLUDED.



-001

SOURCE CONTROL DRAWING SEE SEPARATE PARTS LIST FOR 063363-001

CAD FILE REF: /063363/063363.1.d	APPROVALS	DATE
DESIGNED BY: J. J. J.	DESIGNED BY: J. J. J.	DATE: 8-23-96
CHECKED BY: J. J. J.	CHECKED BY: J. J. J.	DATE: 8-23-96
RES. ENG. J. J. J.	RES. ENG. J. J. J.	DATE: 8-23-96
QA T. ANDERSON	QA T. ANDERSON	DATE: 8-23-96
MFG. ENG. J. J. J.	MFG. ENG. J. J. J.	DATE: 8-23-96
SAC J. J. J.	SAC J. J. J.	DATE: 8-23-96
DRW. ENG. J. J. J.	DRW. ENG. J. J. J.	DATE: 8-23-96

INTERNETC	6001 36TH AVENUE WEST EVERETT, WA 98203-9260
TITLE: ANTENNA, 2.4GHZ,	OMNI
SHEET: 1 OF 1	063363
SCALE: NONE	D

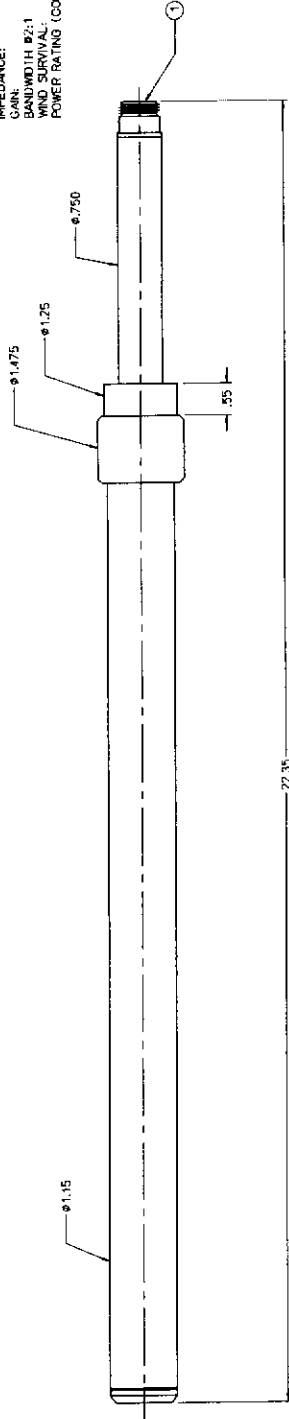
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APPROVED SOURCE(S) OF SUPPLY	
SUPPLIER	PART NUMBER
1. MOBILE MARK	009-2400
2.	
3.	
4.	
5.	
6.	

REVISIONS		REV. STATUS	DESCRIPTION	DATE	DRAWN & APPROVED
5	4	3	2	1	SHEET
					B
					-001 RELEASED AT REV. B

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: ANTENNA - FIBERGLASS RADOME WITH ALUMINUM FEED HARDWARE - 4 EACH U BOLTS (NOT SHOWN)
1 EACH MOUNTING PLATE (NOT SHOWN)
2. REMOVE ALL BURRS AND SHARP EDGES.
3. COSMETIC REQUIREMENTS PER SPECIFICATION 044856.
APPENDIX C, CATEGORY 1, CLASS B.
4. BAG PARTS AND MARK BAG WITH 065348 PER SPECIFICATION 606427. DO NOT MARK DASH NUMBER.
5. CHANGES REQUIRE SAC APPROVAL.
6. SPECIFICATION:
FREQUENCY RANGE:
IMPEDANCE:
SWR:
BANDWIDTH B2:1
WIND SURVIVAL:
POWER RATING (CONTINUOUS):
2300-2600MHZ
50:1 DBS (NOMINAL)
1.0
140MHZ
100-MPH
100 WATTS MAX



-001

SOURCE CONTROL DRAWING
SEE SEPARATE PARTS LIST FOR 065349-001

CAD FILE: 065349.1.D		SYSTEM: JPMK30	
DESIGNED: JPMK30		CHECKED: JPMK30	
DIMENSIONS ARE IN INCHES		XX ± .20	
XXX ± .100		ANGLES ±	
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DRAWN: JPMK30		DATE: 12-19-96	
CHECKED: JPMK30		DATE: 1-28-97	
RESP. ENG: MCHIN		DATE: 1-28-97	
QA: R.S. OVER		DATE: 1-28-97	
MFG. ENG: M.S. ALINO		DATE: 1-28-97	
SAC: JPMK30		DATE: 1-28-97	
DRAWING NUMBER: 065349		SHEET 1 OF 1	

NOTE:
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Intertec		8001 36TH AVENUE WEST EVERETT, WA 98203-9280	
TITLE: ANTENNA, 2.4GHZ,		REV: B	
9081 OMNI		065349	
SHEET 1 OF 1		SCALE: NONE	

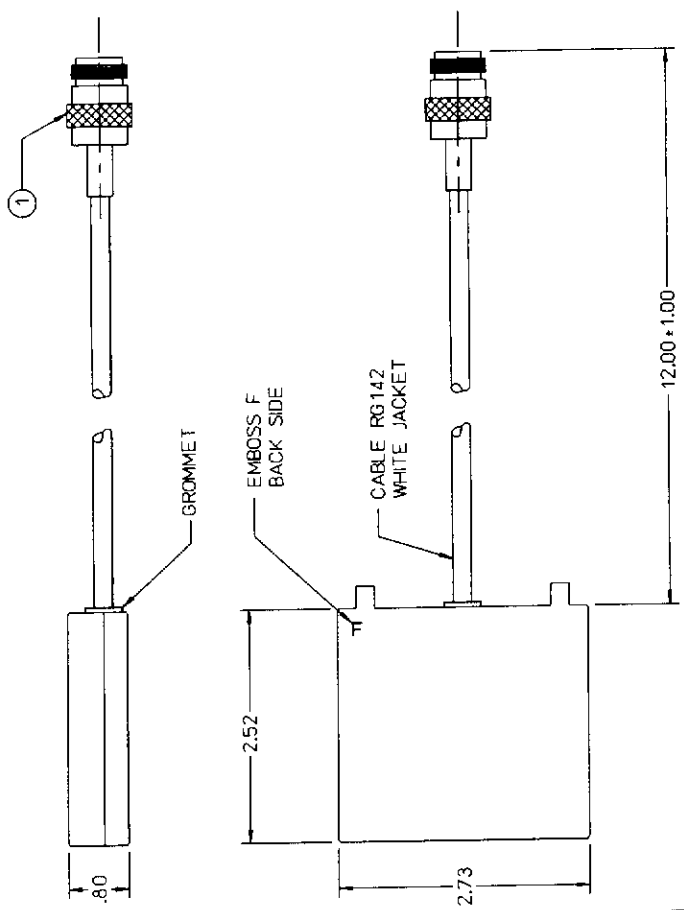
APPROVED SOURCE(S) OF SUPPLY

SUPPLIER	PART NUMBER
1. XERTEX TECHNOLOGIES INC	245BD5W-RN12
2.	
3.	
4.	
5.	
6.	

REV	DESCRIPTION	DATE	DRAWN & APPROVED
B	-001 RELEASED AT REV B		

NOTES: UNLESS OTHERWISE SPECIFIED

- REFER TO THE MANUFACTURER'S SPECIFICATIONS FOR COMPLETE DESIGN PARAMETERS.
- BAG PARTS AND MARK BAG WITH 067262 TO WHICH MANUFACTURED PER SPECIFICATION 606427. DO NOT MARK DASH NUMBER.
- CHANGES REQUIRE SAC APPROVAL.
- SPECIFICATIONS:
 - * FREQUENCY RANGE: 2400-2500 MHz
 - * GAIN: 50dB
 - * VSWR: 1.8:1
 - * IMPEDANCE: 50ohms
 - * BEAMWIDTH 5 °dB
 - H-PLANE: 55°
 - E-PLANE: 80°
 - * OPERATING TEMPERATURE: -40°C TO +100°C
 - * INPUT POWER (MAX): 50 WATTS
- MOUNTING KIT SUPPLIED.



SOURCE CONTROL DRAWING
SEE SEPARATE PARTS LIST FOR 067262-001

CAD DBREF- 067262.1b
SYSTEM - HP/ME30

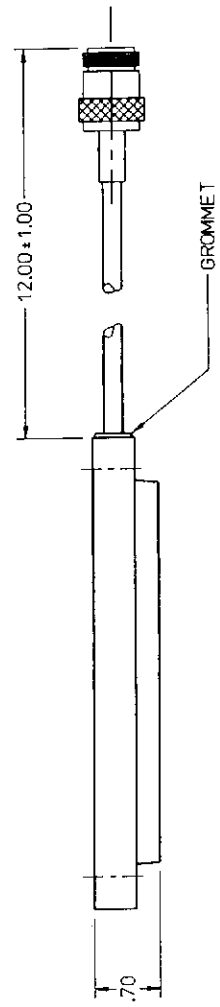
-001

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APPROVALS	DATE	6001 36TH AVENUE WEST EVERETT, WA 98203-9280
DRAWN	J.FOTI 5-11-98	Intermec Technologies Corporation
CHECKED	RHOAGLUND 5-21-98	TITLE ANTENNA, 2.4GHZ, 50dB DUAL FLAT PANEL
RESP ENGM	SHAVER 6-2-98	SIZE CAGE CODE DRAWING NUMBER
QA	T.ANDERSON 6-2-98	C 33825 067262
MFG ENG	M.SALATINO 5-26-98	REV B
SAC	P.HELTON 5-26-98	SCALE NONE
CMPT ENG	T.KEY 5-27-98	SHEET 1 OF 1

APPROVED SOURCE(S) OF SUPPLY	
SUPPLIER	PART NUMBER
1. XERTECH TECHNOLOGIES, INC	245LD9W-RN12
2.	
3.	
4.	
5.	
6.	

REV	DESCRIPTION	DATE	REVISED
B	-001 RELEASED AT REV B		DRAWN & APPROVED



- NOTES: UNLESS OTHERWISE SPECIFIED
- REFER TO THE MANUFACTURER'S SPECIFICATIONS FOR COMPLETE DESIGN PARAMETERS.
 - BAG PARTS AND MARK BAG WITH 067263 TO WHICH MANUFACTURED PER SPECIFICATION 606427. DO NOT MARK DASH NUMBER.
 - CHANGES REQUIRE SAC APPROVAL.
 - SPECIFICATIONS:
 - * FREQUENCY RANGE: 2400-2500MHz
 - * GAIN: 9dB
 - * VSWR: 1.5:1
 - * IMPEDANCE: 50 ohms
 - * BEAMWIDTH 9dB
 - H-PLANE: 60°
 - E-PLANE: 60°
 - * INPUT POWER (MAX): 50 WATTS
 - * OPERATING TEMPERATURE: -40°C TO +100°C
 - * FRONT/BACK RATIO: 20 dB
 - MOUNTING KIT SUPPLIED.

SOURCE CONTROL DRAWING
SEE SEPARATE PARTS LIST FOR 067263-001

CAD DBREF- 067263.1.b
SYSTEM - HP/ME30
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.

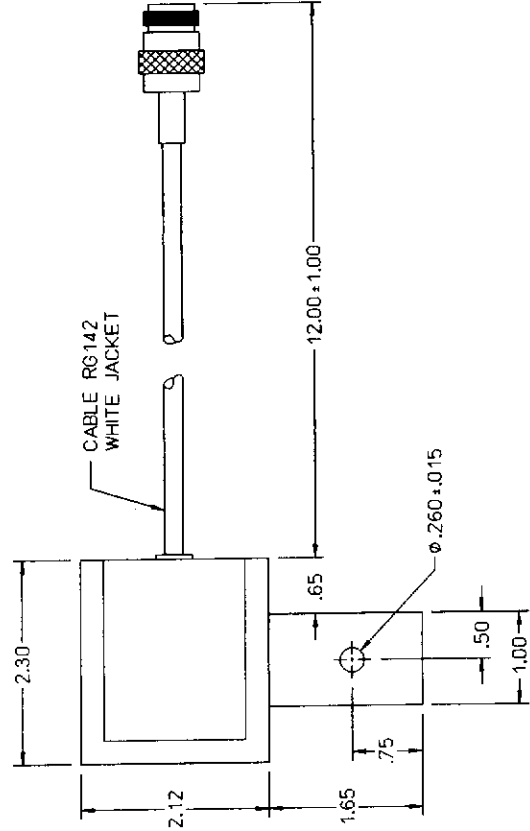
-001

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Intermec Technologies Corporation		6001 36TH AVENUE WEST EVERETT, WA 98203-9280	
TITLE			
ANTENNA, 2.4GHZ, 9dB FLAT PANEL			
SIZE	CAGE CODE	DRAWING NUMBER	REV
C	33825	067263	B
SCALE	NONE		SHEET 1 OF 1

APPROVED SOURCE(S) OF SUPPLY

SUPPLIER	PART NUMBER
1. XERTECH TECHNOLOGIES INC	2450D3W-RN12
2.	
3.	
4.	
5.	
6.	



- NOTES: UNLESS OTHERWISE SPECIFIED
1. REFER TO THE MANUFACTURER'S SPECIFICATIONS FOR COMPLETE DESIGN PARAMETERS.
 2. BAG PARTS AND MARK BAG WITH 067261 TO WHICH MANUFACTURED PER SPECIFICATION 606427. DO NOT MARK DASH NUMBER.
 3. CHANGES REQUIRE SAC APPROVAL.
 4. SPECIFICATIONS:
 - * VSWR: 1.5:1
 - * FREQUENCY: 2400-2500 MHz
 - * GAIN: 3 dBi
 - * BEAMWIDTH 3dB
 - H-PLANE 360°
 - E-PLANE 180°
 - * PATTERN: OMNI-DIRECTIONAL
 - * OPERATION TEMPERATURE: -40°C TO +100°C
 - * MAXIMUM INPUT POWER: 50 WATTS
 5. MOUNTING KIT SUPPLIED.

SOURCE CONTROL DRAWING

SEE SEPARATE PARTS LIST FOR 067261-001

CAD DBREF- 067261.1.b
SYSTEM - HP/ME30

-001

NOTICE
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APPROVALS		DATE
DRAWN	J.FOTI	5-11-98
CHECKED	R.HOAGLUND	5-21-98
RESP ENGR.	M.SHAVER	6-2-98
QA	T.ANDERSON	6-2-98
MFG ENGR.	M.SALATINO	5-26-98
SAC	P.HELTON	5-26-98
CMPT ENGR	T.KEY	5-27-98

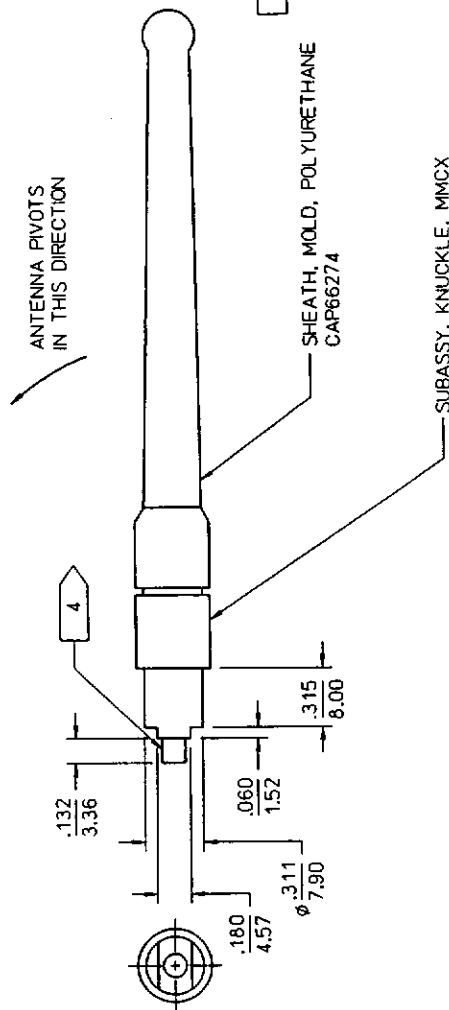
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.	
.XX	.12
.XXX	
ANGLES	*

INTERTEC Technologies Corporation	
6001 36TH AVENUE WEST EVERETT, WA 98203-9280	
TITLE	
ANTENNA, 2.4GHZ, 3dBi MINI OMNI	
SIZE	CAGE CODE
C	33825
DRAWING NUMBER	REV
067261	B
SHEET 1 OF 1	

REVISION		REV STATUS		REV		DESCRIPTION		DATE		DRAWN & APPROVED	
5	4	3	2	1	SHEET	REV	C	-001	RELEASED AT REV C	DATE	

NOTES: UNLESS OTHERWISE SPECIFIED

1. SPECIFICATIONS:
FREQUENCY RANGE: 2.4 - 2.5 GHZ
GAIN: +15 DBI PEAK
IMPEDANCE: 50 OHMS
VSWR: ACROSS THE BAND , 1.5:1
POWER RATING: 1 WATT MAXIMUM
OPERATING TEMPERATURE: -40°C TO 65°C @ 95% RH
2. MECHANICAL REQUIREMENTS:
FLEX PERFORMANCE (SHEATH): 500 CYCLES AT 45° IN TWO DIRECTIONS PERPENDICULAR TO THE CENTERLINE AXIS.
3. SINUSOIDAL VIBRATION WITH THE FOLLOWING CHARACTERISTICS:
SWEEP RATE: CONSTANT, 1 OCTAVE PER MINUTE.
1 HZ TO 3 HZ: CONSTANT DISPLACEMENT OF ONE INCH PEAK TO PEAK.
3 HZ TO 1000 KHZ: CONSTANT ACCELERATION OF 1.5 G'S.
4. CONNECTOR TO BE HUBER-SHNER MMCX, P/N 11MMCX-50-2-X6664.
5. ANTENNA COLOR TO BE BLACK.
6. COSMETIC REQUIREMENTS PER SPECIFICATION 044856, APPENDIX 'A', CATEGORY II, CLASS A.
7. BAG PARTS AND MARK BAG WITH 069753 PER SPECIFICATION 606427. DO NOT MARK DASH NUMBER.
8. CHANGES REQUIRE SAC APPROVAL.



CAD DB:REF- 069753.1.c
SYSTEM - HP

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

XX *
XXX * .010/0.25
ANGLES *

DRAWN	APPROVALS	DATE
1.F0T1		6-11-99
CHECKED	G.OPSTAD	9-13-99
RESP ENG	RZIGLER	9-15-99
QA	R.WOJTELEWCZ	9-21-99
MFG ENG	RODEKRA	9-15-99
SAC	Q.DREW	9-15-99
CE/ID		

Intermec
Technologies Corporation
6001 36TH AVENUE WEST
EVERETT, WA 98203-9280

TITLE		SIZE		DRAWING NUMBER		REV	
ANTENNA, 2.4 GHZ, OMNI, 2101		C 33825		069753		C	
SCALE		2/1		SHEET		1 OF 1	

-001

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2

12 DIMENSIONS: INCHES
MM



MILLER CONTINUED TO THE LEFT

SEE SEPARATE PARTS LIST FOR 070142-001

Y

-001

100

Y