

# SPECIFICATION CONTROL DRAWING

## REVISIONS

REV.	DATE	DESCRIPTION	ECO NO.
A	9/17/08	INITIAL RELEASE	----

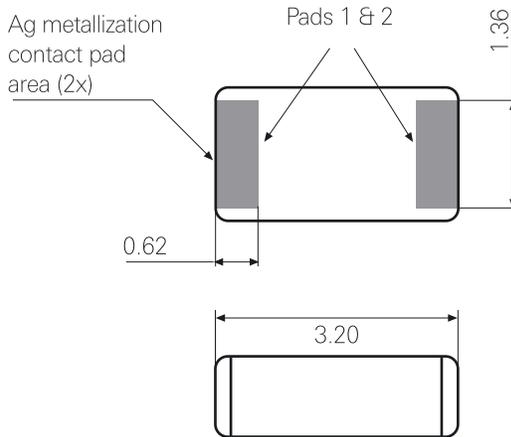
DWG. NO.

717-00026-01

### Antenna features

No.	Terminal name	Terminal Dimensions
1	Feed / GND	0.62 x 1.36 mm
2	Feed / GND	0.62 x 1.36 mm

Antenna is symmetrical.  
Either of terminals 1 or 2 can be feed / GND



### Bluetooth / WLAN / WiFi

Typical performance (test board size 80x37 mm, PWB ground clearance area 4.00 x 6.25 mm)

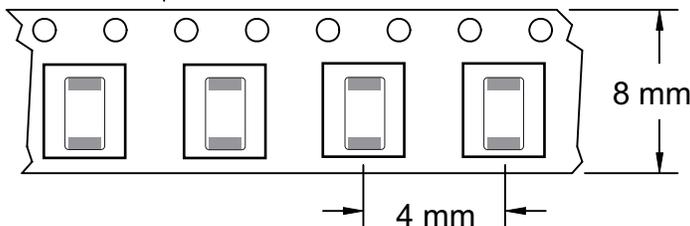
Frequency Range [MHz]	Linear Max Gain [dBic]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [°C]
2400-2483.5	2.2 (Peak) 1.9 (Band edges)	75 / -1.3 (Peak) 70 / -1.6 (Band edges)	-11	50	-40 to +85

### PACKAGING REQUIREMENTS:

Tape-and-Reel/EIA specification

Minimum Leader Requirements: 25 cm Cover Tape  
0 cm Carrier Tape

Component Orientation



USER DIRECTION OF FEED →



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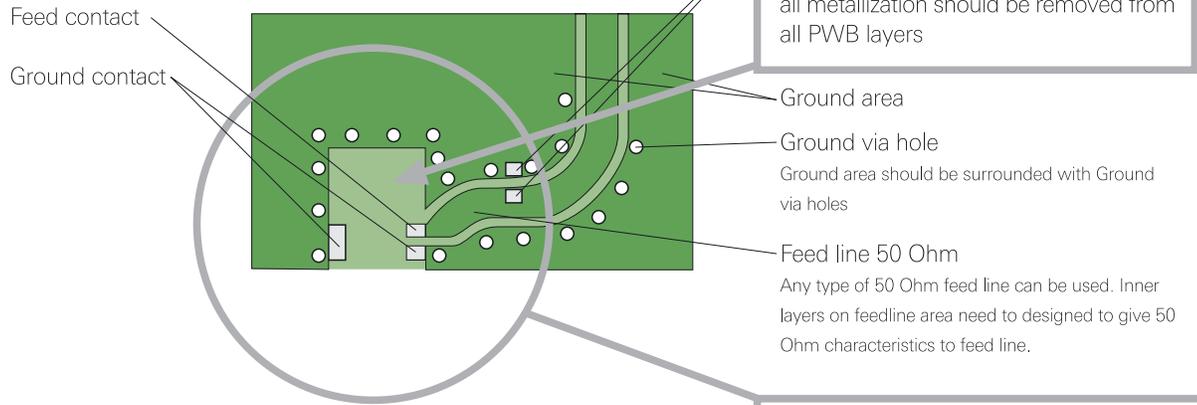
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Olathe, Kansas 66062 U.S.A.

TOLERANCE (UNLESS NOTED OTHERWISE)		DRWN	SC	DATE	TITLE
.XX ±.010", 0.25mm	.XXX ±.005", 0.13mm	CHKD.		9/17/08	ANT,CHIP,2.45GHz,3.2x1.6x1.1mm,W3008C
HOLES ±.003", 0.08mm	ANGLES ±0 DEG./30 MIN.	PROJ. MGR.			SIZE A
		RLS BY			DWG. NO. 717-00026-01
					SCALE NONE
					REV. A
					SHT. 1 OF 5

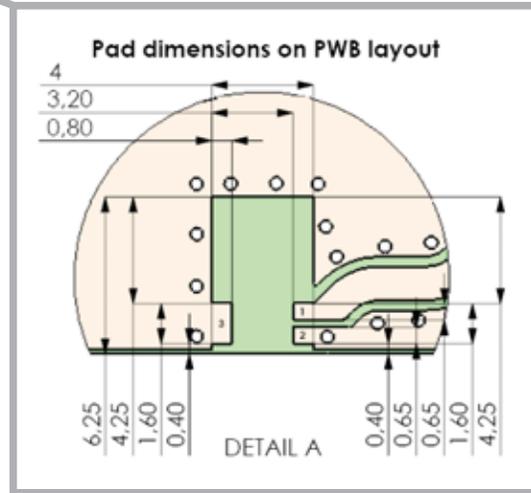
# Terminal Configuration , W3008C

## PWB Layout



## PWB features

No.	Terminal name	Terminal Dimensions
1	Feed	0.8 x 0.65 mm
2	GND	0.8 x 0.65 mm
3	GND	0.8 x 1.60 mm



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SIZE A	DWG. NO. 717-00026-01	REV. A
SCALE NONE	SHT. 2 OF 5	

### Typical Electrical Characteristics (T=25 °C), W3008C

Typical Return Loss S11/ impedance, measured on the test board

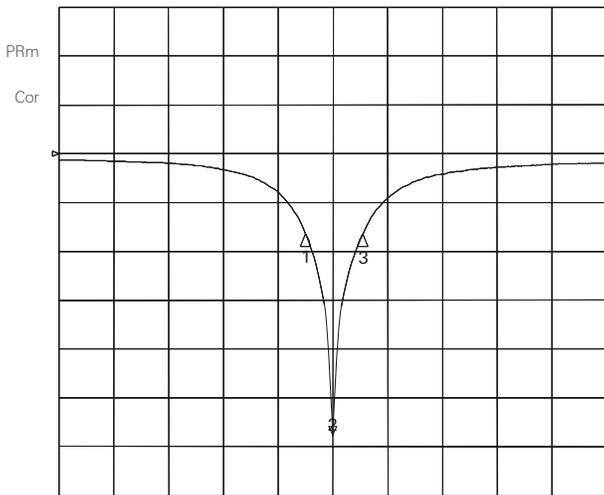
#### BT/WLAN

20 Oct 2005 12:36:03

CH1 S11&MLOG 5 dB/REF 0 dB

#### CH1Markers

- 1. -11.415 dB 2.40000 GHz
- 2. -11.464 dB 2.440.000 000 MHz
- 3. -27.875 dB 2.48350 GHz



START 2 040.000 000 MHz

STOP 2 840.000 000 MHz

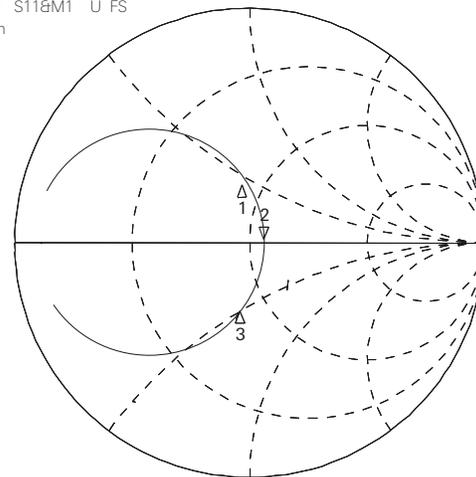
#### BT/WLAN

20 Oct 2005 12:39:25

#### CH1Markers

- 1. 40.141 Ω 24.354 Ω 2.40000 GHz
- 2. 55.264 Ω 1.3613 Ω 88.796 pH 2.440.000 000 MHz
- 3. 40.658 Ω -25.082 Ω 2.48350 GHz

CH1 S11&M1 U FS  
PRm  
Del  
Cor

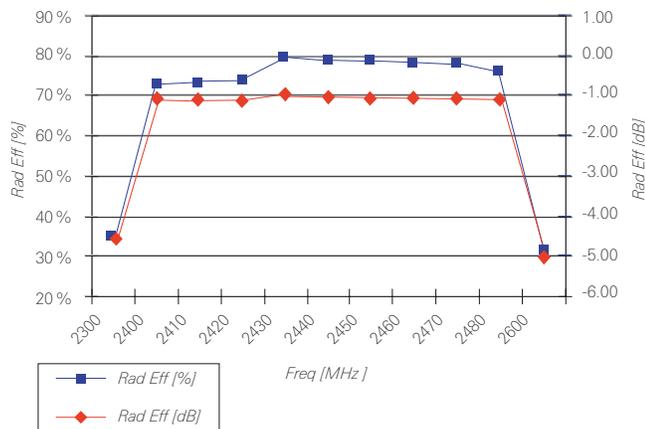


START 2 040.000 000 MHz

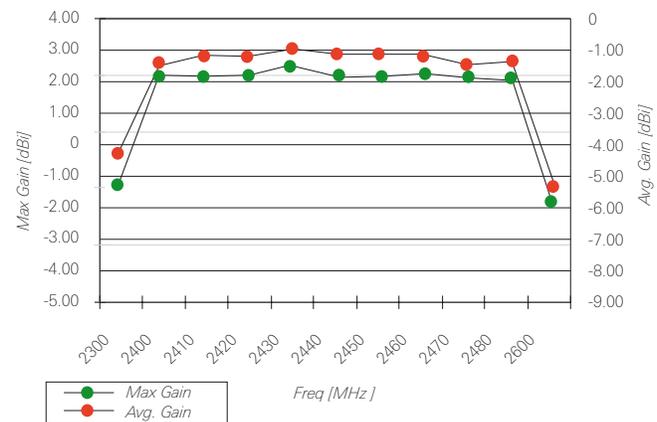
STOP 2 840.000 000 MHz

Free space efficiency and maximum gain / PWB ground clearance area 4.00 x 6.25 mm

#### BT GC 3.2 x 1.6 x 1.1 mm



#### BT GC 3.2 x 1.6 x 1.1 mm



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SIZE  
A

DWG. NO.

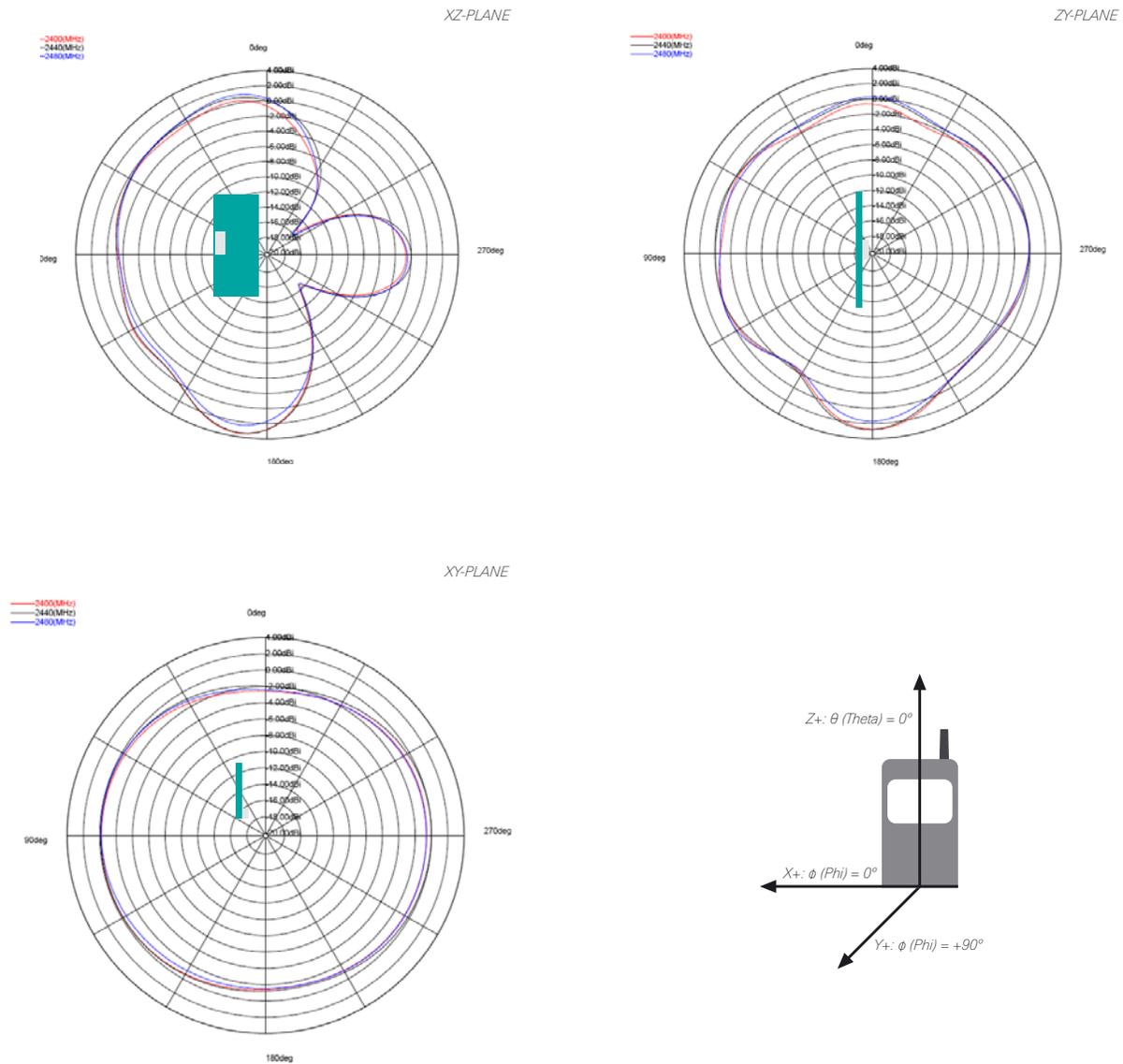
717-00026-01

REV.  
A

SCALE NONE

SHT. 3 OF 5

Typical Free Space Radiation Patterns , W3008C



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SIZE <b>A</b>	DWG. NO. <b>717-00026-01</b>	REV. <b>A</b>
SCALE <b>NONE</b>	SHT. <b>4</b> OF <b>5</b>	

# APPROVED MANUFACTURERS LIST

DWG. NO.

717-00026-01

MANUFACTURER	PULSE	
CODE	1018	
GARMIN P/N	P/N	
717-00026-01	W3008C	



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<b>SIZE</b>		<b>DWG. NO.</b>		<b>REV.</b>
<b>A</b>		<b>717-00026-01</b>		<b>A</b>
<b>SCALE</b>	<b>NONE</b>		<b>SHT. 5 OF</b>	<b>5</b>