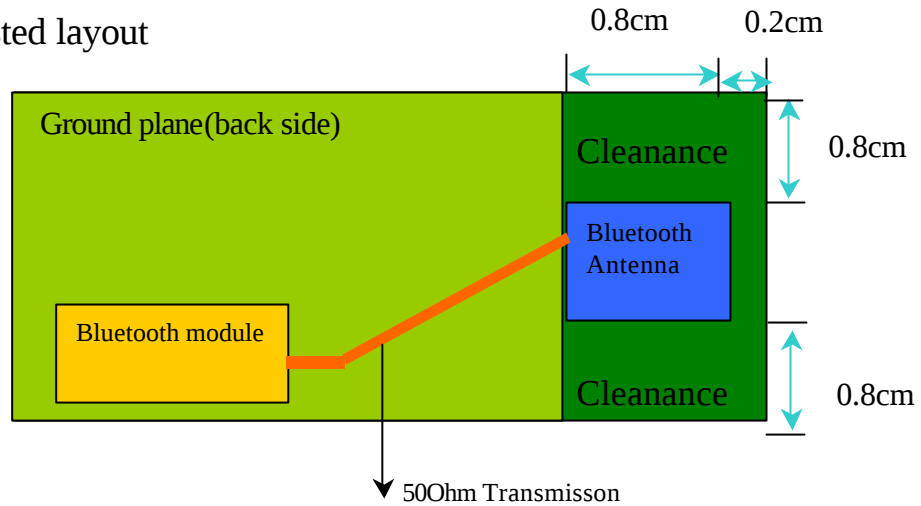


QUICK REFERENCE DATA

APPLICATION

Suggested layout



Solder Land Pattern

Figure	Dimensions		Remark
	L	8.30 ± 0.10 mm	Feed pad Ground pad Mount pad Mount pad Mount pad Mount pad
	W	5.70 ± 0.10 mm	
	F	1.00 ± 0.10 mm	
	G	1.40 ± 0.10 mm	
	C	0.90 ± 0.10 mm	
	S1	1.40 ± 0.10 mm	
	S2	1.40 ± 0.10 mm	
	S3	1.00 ± 0.10 mm	
	S4	1.40 ± 0.10 mm	

Development	Print date 00/10/30		Preliminary use only			
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MECHANICAL DATA

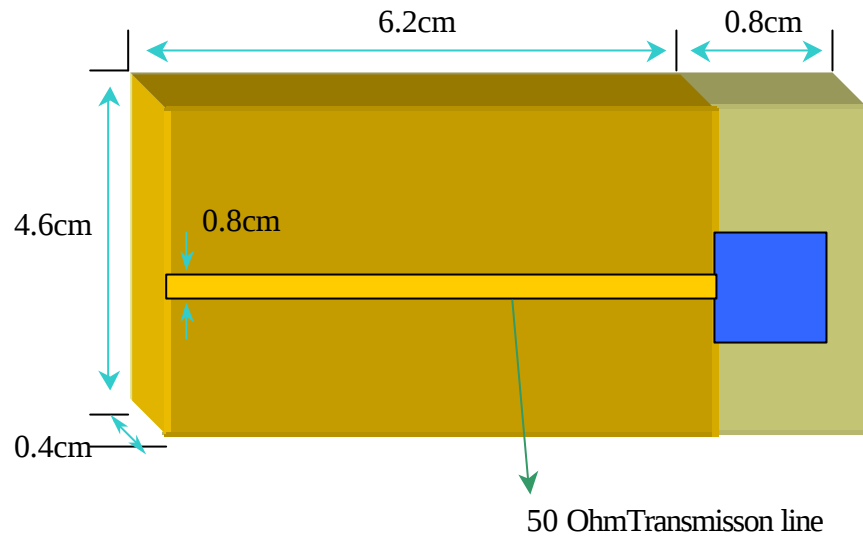
Figure	Dimension	Port
	L	-
	W	-
	T	-
	F	Feed termination
	G	Ground termination
	C	-
	S1	Solder termination
	S2	Solder termination
	S3	Solder termination
	S4	Solder termination
	1.25±0.25mm	

ELECTRICAL DATA

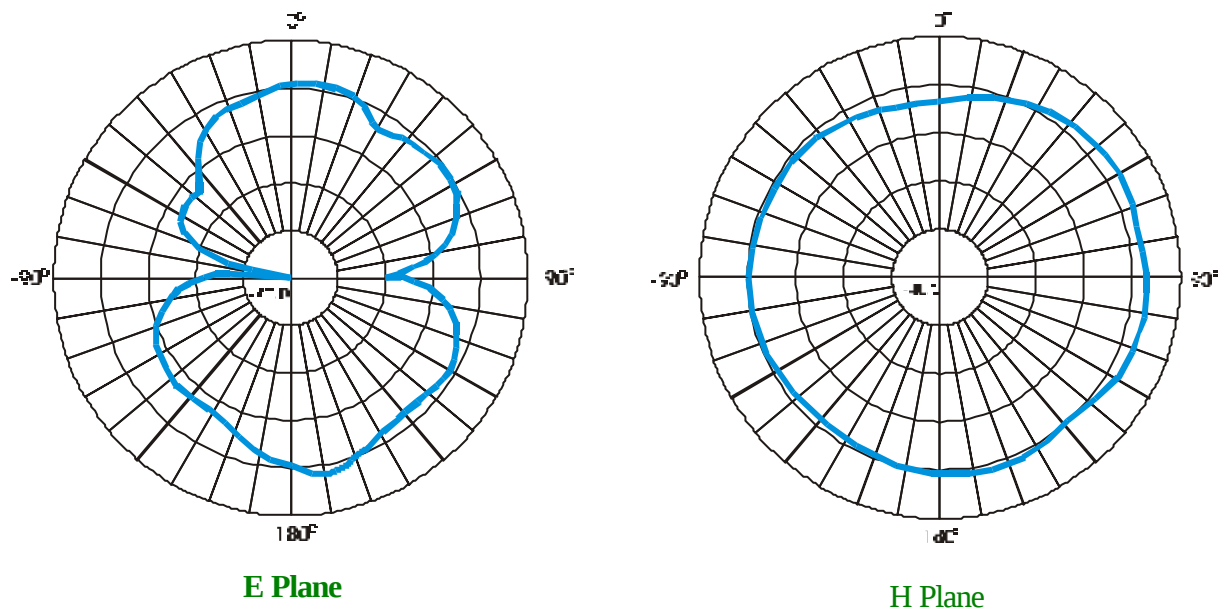
Central Frequency	2.45 GHz
Bandwidth	100 MHz
Gain	0 ~ 1.2dBi
VSWR	2 max
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Impedance	50 Ohm
Operating Temperature	-55~125 Deg. C
Termination	Ni/Sn (Environmental Friendly Leadless)
Resistance to soldering heat	260 Deg. C, 10 sec.
Temperature Characteristic	±10%(-30/20/85 Deg. C)

Development	Print date 00/10/30					Preliminary use only				
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Standards Testing Board for Radiation Pattern and S11(return loss)

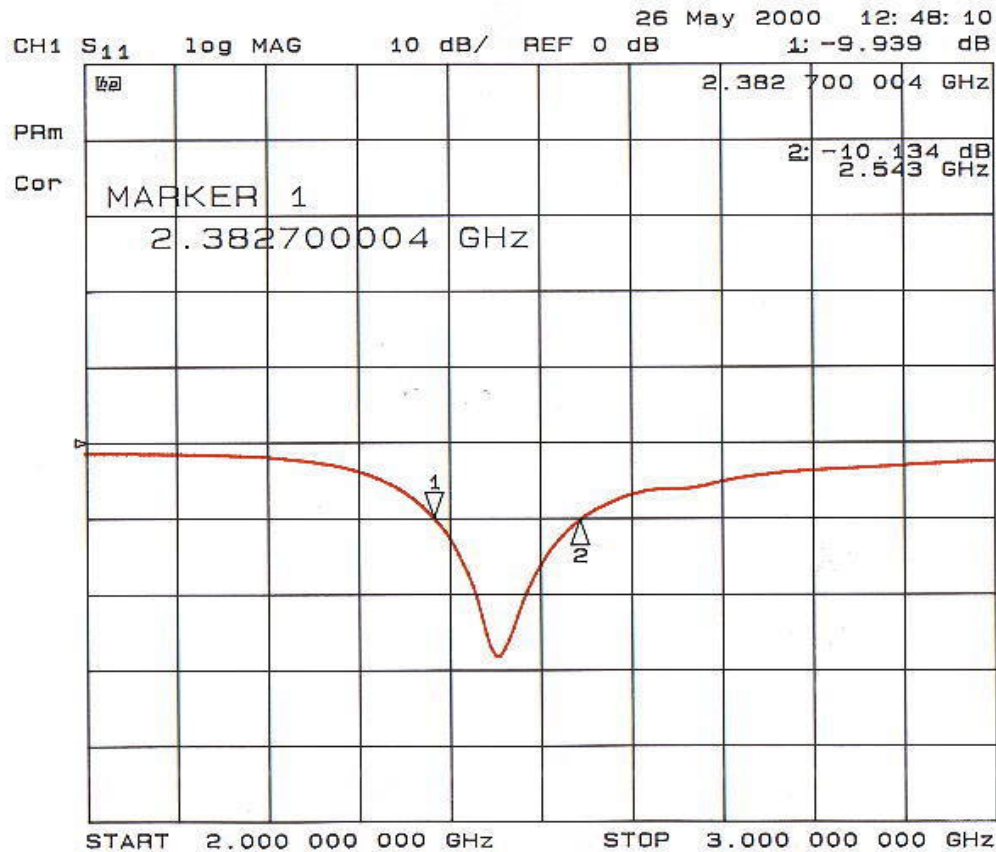


Radiation Pattern Polar plot



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S11 (return loss) Measurement



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RELIABILITY DATA (Reference to IEC Specification)

IEC 384-10/ CECC 32 100 CLAUSE	IEC 6006868-2 TEST METHOD	TEST	PROCEDURE	REQUIREMENTS
4.4		Mounting	The antenna can be mounted on printed-circuit boards or ceramic substrates by applying wave soldering, reflow soldering (including vapour phase soldering) or conductive adhesive	No visible damage
4.5		Visual inspection and dimension check	Any applicable method using ´ 10 magnification	In accordance with specification (chip off 4mm)
4.6.1		Antenna	Frequency = 2.45 GHz; at 20 °C	Standard test board in page 4
4.7.1		Temperature characteristics	-30/20/85 °C	Bandwidth Change ± 20%
4.8		Adhesion	A force of 5 N applied for 10 s to the line joining the terminations and in a plane parallel to the substrate	No visible damage
4.9		Bond strength of plating on end face	Mounted in accordance with CECC 32 100, paragraph 4.4	No visible damage
			Conditions: bending 1mm at a rate of 1mm/s, radius jig. 340 mm, 2mm warp on FR4 board of 90 mm length	No visible damage

Development	Print date 00/10/30				Preliminary use only			
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The inductors may be ordered by using the 12 NC ordering code. These code numbers can be determined by the following rules:

$$245 = 2.45 \text{ GHz}$$

Example: 12NC 4311 111 00245
Product description: Antenna (43) by 330 mm blister (11) of High
Frequency Material (1), Size 7.3*5.5*1.3 mm (1);
Tolerance (00) of 100 MHz (VSWR<2)
Working Frequency (245) = 2.45G Hz

Development	Print date 00/10/30				Preliminary use only			
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