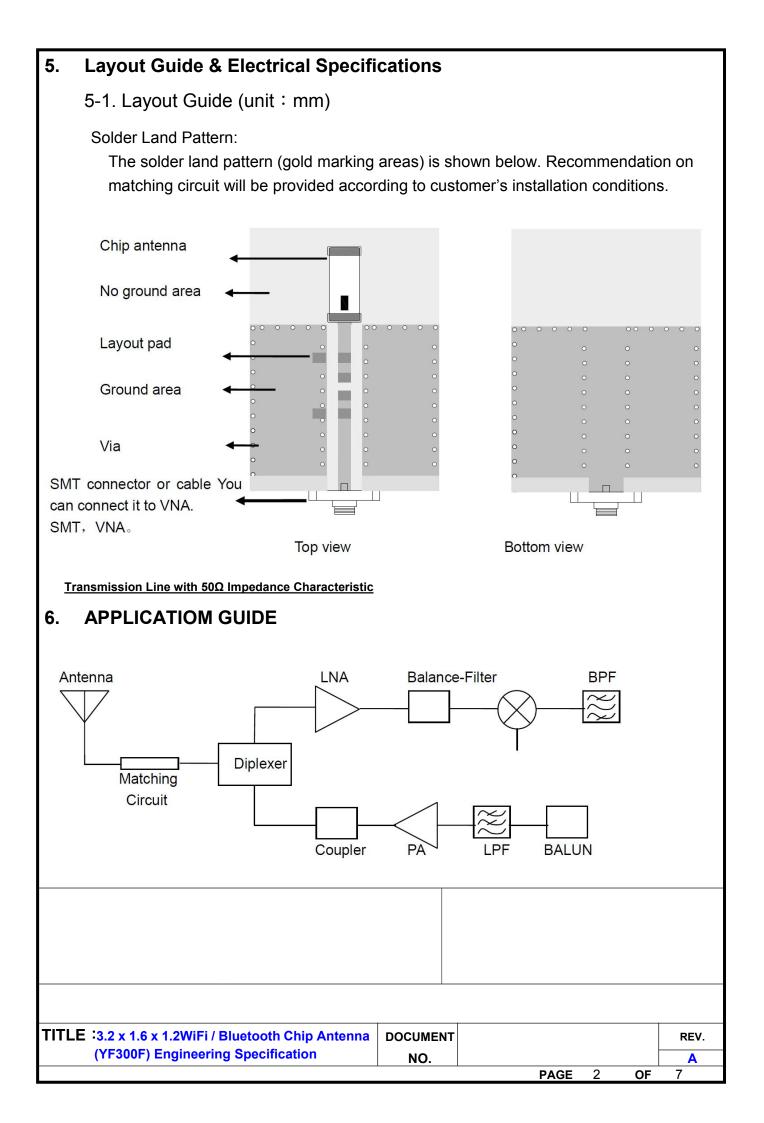
	3.2 x 1.6 x 1.2 (mm) WiFi / Bluetooth Chip Antenna (YF300F) Engineering Specification											
1.	Product Number E 1 2 S 2 M 1 E 1 2 (1) (2)	0 Z (3) (4	2 4) (5)	9 <u>6</u> 0[(6)	3 0							
2.	Features *Stable and reliable in performances *Low profile, compact size *RoHS compliance *SMT processes compatible											
3.	Applications *ISM 2.4 GHz applications *ZigBee/BLE applications *Bluetooth earphone systems *Hand-held devices when WiFi / Blueto *IEEE802.11 b/g/n *Wireless PCMCIA cards or USB dong		ons are need	ded, e.g., Smart	phones							
4.	Description Unictron's AB002 chip antenna is de frequencies 2400~2500 MHz. Fabric AB002 shows excellent performance which can decrease the assembly cos	ated with and is fu	proprietary Ily compati	design and pi ble with SMT p	rocesses, rocesses							
TITL	E :3.2 x 1.6 x 1.2WiFi / Bluetooth Chip Antenna (YF300F) Engineering Specification	DOCUMENT NO.	-	PAGE 1 O	REV.							

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5-2. Electrical Specifications (Evaluation Board Dimensions: 40 x 40 mm²) 5-2-1. Electrical Table

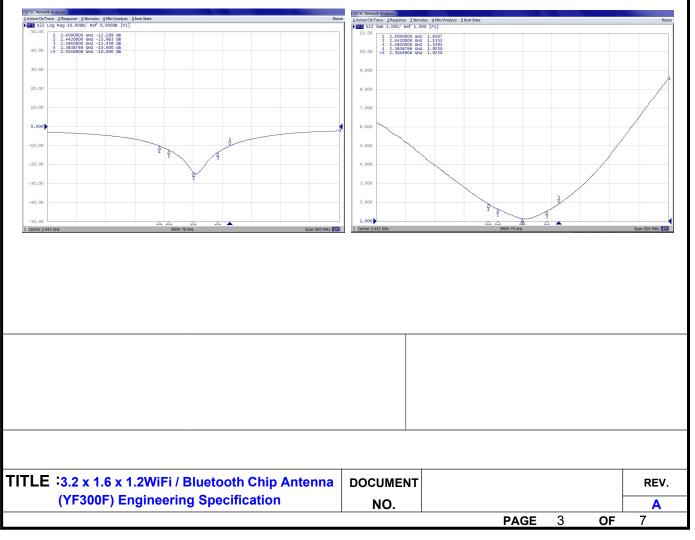
Characte	ristics	Specifications	Unit
Outline Dimensions		3.2 x 1.6 x 1.2	mm
Working Frequency		2400 ~ 2500	MHz
VSWR(@ center fre	equency)*	2 Max.	
Characteristic Impe	dance	50	Ω
Polarization		Linear Polarization	
Peak Gain	(@2442 MU-)	1.2 (typical)	dBi
Efficiency	(@2442 MHz)	52 (typical)	%

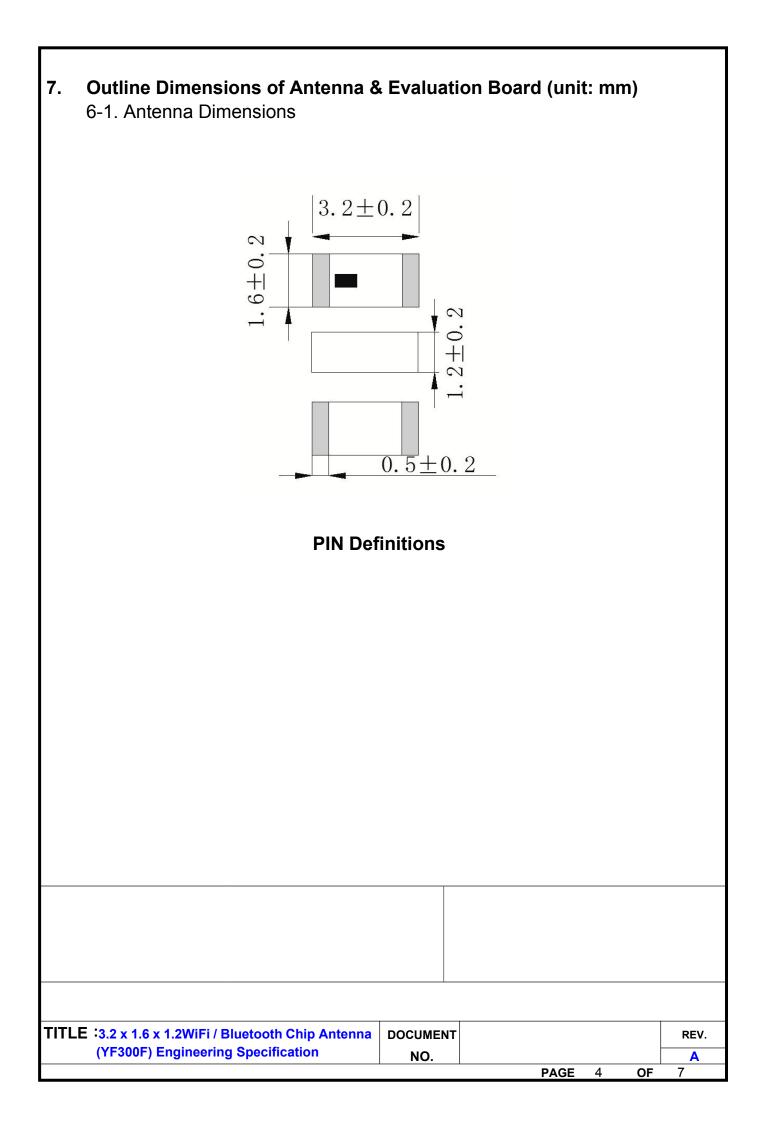
*Center frequency means the frequency with the lowest value in return loss of the chip antenna on the evaluation board.

5-2-2. Return Loss & VSWR



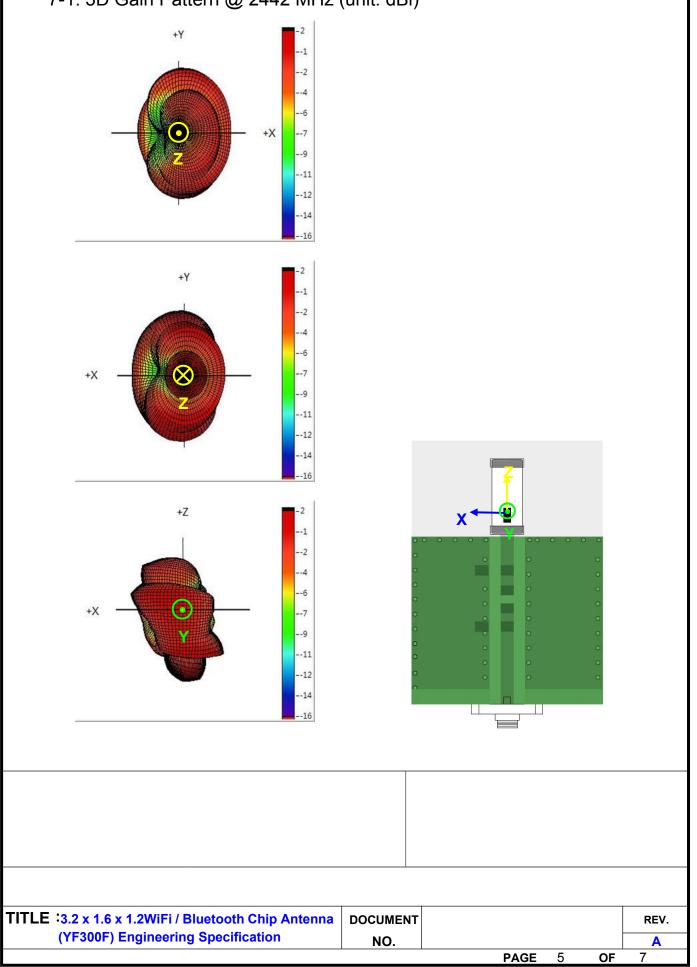






8. Radiation Pattern (with 40 x 40 mm² Evaluation Board)

7-1. 3D Gain Pattern @ 2442 MHz (unit: dBi)



7-2. 3D Efficiency Table

Frequency(MHz)	2400	2412	2417	2422	2427	2432	2437	2442	2447	2452	2457	2462	2467	2472	2484	2500
Efficiency(dB)	-3.2	-3.2	-3.1	-3.0	-2.9	-2.9	-2.9	-2.8	-2.9	-2.8	-2.8	-2.8	-2.7	-2.8	-3.0	-3.1
Efficiency(%)	48.1	47.6	49.1	50.7	50.9	51.2	51.3	52.0	51.6	52.5	52.7	53.1	53.6	52.6	50.5	49.0
Peak Gain(dBi)	0.9	0.8	0.9	1.0	1.0	1.1	1.2	1.2	1.2	1.2	1.1	1.1	1.2	1.1	0.8	0.7



