



## 5-2. Electrical Specifications (Evaluation Board Dimensions: 80 x 40 mm<sup>2</sup>)

Characteristics		Specifications	Unit	
Outline Dimensions		5.0 x 3.0 x 0.5	mm	
Ground Plane Dimensions		80 x 40 mm		
Working Frequency		902~928	MHz	
VSWR (@ center frequency)*		2 Max.		
Characteristic Impedance		50	Ω	
Polarization		Linear Polarization		
Peak Gain	(@Q15 MHz)	0.8 (typical**)	dBi	
Efficiency		52 (typical**)	%	

\*Center frequency means the frequency with the lowest value in return loss of the chip antenna on the evaluation board. \*\*A typical value is for reference only, could be changed due to the system or equipment of measurement is different.

### 5-2-2. Frequency vs. V.S.W.R. and Total Radiation Gain







# 7. 3D Radiation Gain Pattern (with 80 x 40 mm<sup>2</sup> Evaluation Board)

3D Radiation Gain Pattern @ 915 MHz (unit: dBi)









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### 11. Packing

(1) Quantity/Reel: 6000 pcs/Reel

(2) Plastic tape:



b. Tape Dimensions (unit: mm)

Feature	Specifications	Tolerances	
W	12.00	±0.30	
Р	8.00	±0.10	
Е	1.75	±0.10	
F	5.50	±0.10	
P2	2.00	±0.10	
D	1 50	+0.10	
	1.50	-0.00	
Po	4.00	±0.10	
10Po	40.00	±0.20	

### 12. **Operating & Storage Conditions**

- 12-1. Operating
  - (1) Maximum Input Power: 2 W
  - (2) Operating Temperature: -40°C to 85°C
  - (3) Relative Humidity: 10% to 70%

12-2. Storage (sealed)

- (1) Storage Temperature:  $-5^{\circ}$ C to  $40^{\circ}$ C
- (2) Relative Humidity: 20% to 70%
- (3) Shelf Life: 1 year

12-3. Storage (unsealed)

Meet the criteria of J-STD-033 MSL2a

12-4. Storage (After mounted on customer's PCB with SMT process)

- (1) Storage Temperature:  $-40^{\circ}$ C to  $85^{\circ}$ C
- (2) Relative Humidity: 10% to 70%

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Unictron Technologies Corp.

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#### 13. Notice

(1) Installation Guide:

Please refer to Unictron's application note "General guidelines for the installation of Unictron's chip antennas" for further information.

(2) All specifications are subject to change without notice.

