





5-2-2. Electrical Table (1710~2170 MHz Band)										
Characteri	stics	Specifications	Unit							
Working Frequency		1710~2170 MI								
VSWR (@ center freque	ency)*	3 Max.								
Characteristic Impedan	се	50	Ω							
Polarization		Linear Polarization								
Peak Gain	(@1050 MH-)	2.4 (typical)	dBi							
Efficiency	(@1950 MIHZ)	80 (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, not guaranteed. .

5-2-3. Return Loss & VSWR Return Loss (S₁₁)



VSWR (S₁₁)











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CC26DH Evaluation Bo

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Prepared by : Mina	Designed by : Tom	Checked b	Checked by : Mike Approved by					
TITLE:26.0 x 7.65 x 3.2 (m	m) GSM / 3G Chip Antenna	DOCUMENT	H2UA6K2K	200	REV.			
(CC26DH) Engineer	ing Specification	NO.				Н		
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7-1-2.3D Efficiency Table																
Frequency(MHz)	824	830	840	850	860	870	880	890	895	900	910	920	930	940	950	960
Efficiency(dB)	-2.4	-2.1	-2.3	-2.1	-2.0	-2.0	-1.7	-1.2	-1.2	-1.3	-1.4	-1.4	-1.3	-1.1	-1.0	-1.2
Efficiency(%)	57.8	61.2	59.6	61.3	63.6	62.9	67.4	75.3	75.6	73.9	72.1	73.2	73.9	77.8	79.9	76.2
Peak Gain(dBi)	0.2	0.5	0.2	0.1	0.5	-0.1	0.3	1.0	1.1	1.1	1.0	0.9	0.8	1.2	1.5	1.3

7-1-3. 3D Efficiency vs. Frequency



7-2. 1710~2170 MHz Band

7-2-1. 3D Radiation Gain Pattern @ 1950 MHz (Unit: dBi)







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7-2-2. 3D Efficiency Table															
Frequency(MHz)	1710	1740	1770	1800	1830	1860	1890	1920	1950	1980	2010	2070	2100	2130	2170
Efficiency(dB)	-2.1	-2.5	-2.7	-2.2	-1.2	-1.0	-0.8	-0.9	-0.9	-1.0	-1.0	-1.4	-1.3	-1.3	-1.7
Efficiency(%)	61.6	56.1	54.2	60.2	75.1	80.0	83.3	80.9	80.4	78.6	80.0	73.0	73.5	73.7	67.5
Peak Gain(dBi)	0.9	-0.7	-0.9	1.6	2.2	2.4	2.6	2.3	2.4	2.2	2.0	1.1	1.0	0.8	0.9





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11. Operating & Storage Conditions

- 11-1. Operating
 - (1) Maximum Input Power: 2 W
 - (2) Operating Temperature: -40 $^\circ\!\mathrm{C}$ to 85 $^\circ\!\mathrm{C}$
 - (3) Relative Humidity: 10% to 70%
- 11-2. Storage (sealed)
 - (1) Storage Temperature: -5°C to 40°C
 - (2) Relative Humidity: 20% to 70%
 - (3) Shelf Life: 1 year

11-3. Storage (unsealed) Meet the criteria of <u>J-STD-033 MSL2a</u>

- 11-4. Storage (After mounted on customer's PCB with SMT process)
 - (1) Storage Temperature: -40 $^\circ\!\mathrm{C}$ to 85 $^\circ\!\mathrm{C}$
 - (2) Relative Humidity: 10% to 70%

12. 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.

