

LTE Internal Passive Antenna ANT-J01-135-X2

產品承認書

Customer : PowerView Display Corporation

Customer Product Number : 2D0000130-11

WinLead Model Name : ANT-J01-135-X2

Date : 2019/02/25

Prepared by: WinLead Technology Inc.

Version: V1.0

Approved By PowerView Display	Date
Signature	
We appreciate your cooperation to confirm it.	

Internal Passive Antenna 1050/2200 MHz



■ Features

- Miniature design allows users to save required space
- Wide Bandwidth
- Cable Length & Connector are flexible
- RoHS compliant

■ Specifications

● PCB Antenna

Type	
Frequency	1050MHz / 2200MHz
Bandwidth (at 10dB return loss)	200 MHz @ 1050MHz 150 MHz @ 2200MHz
VSWR	2.0 dB max
Impedance	50 Ω
Operating Temperature	-40 $^{\circ}$ C ~+85 $^{\circ}$ C
Polarization	Linear

● Others

Type	
Cable type	1.13mm Coaxial Cable
Cable Length	135mm flexible
Connector Type	IPEX option

■ Product Identification

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—(1)— (2)—(3) (4)— —

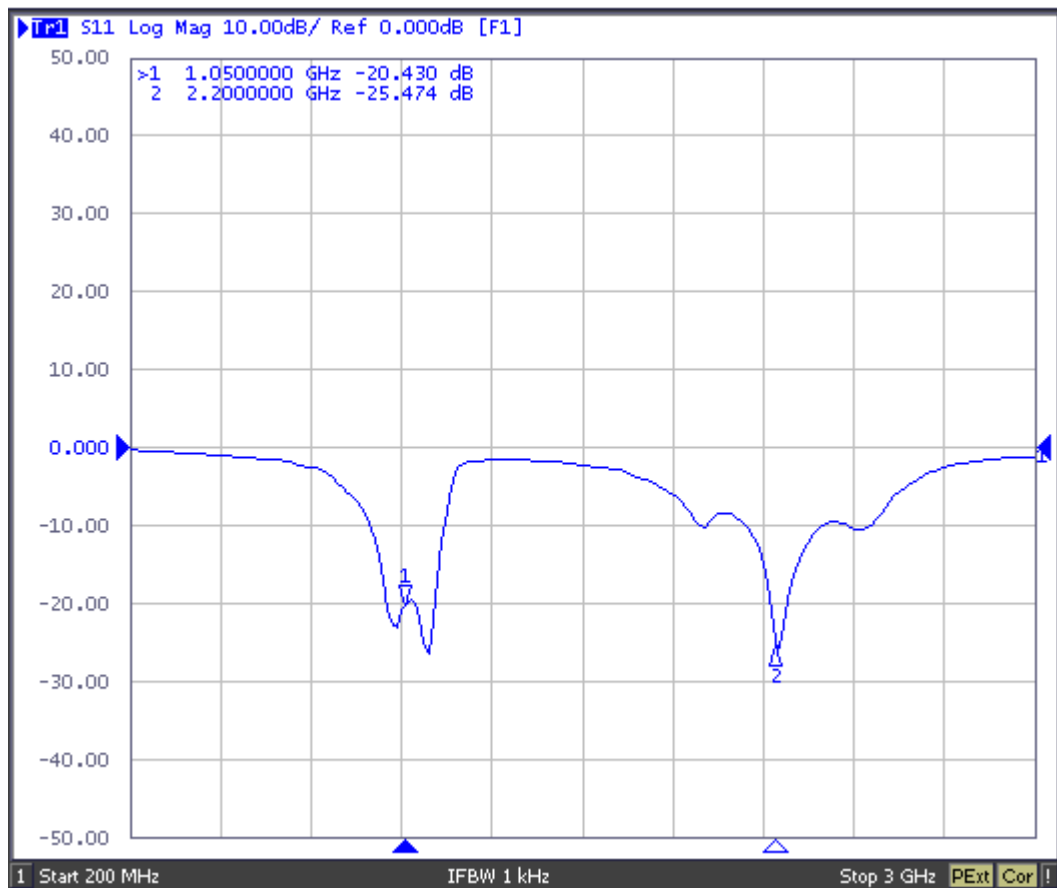
(1) Serial Number
J01

(2) Cable Length
040: 40mm **095:** 95mm **135:** 135mm

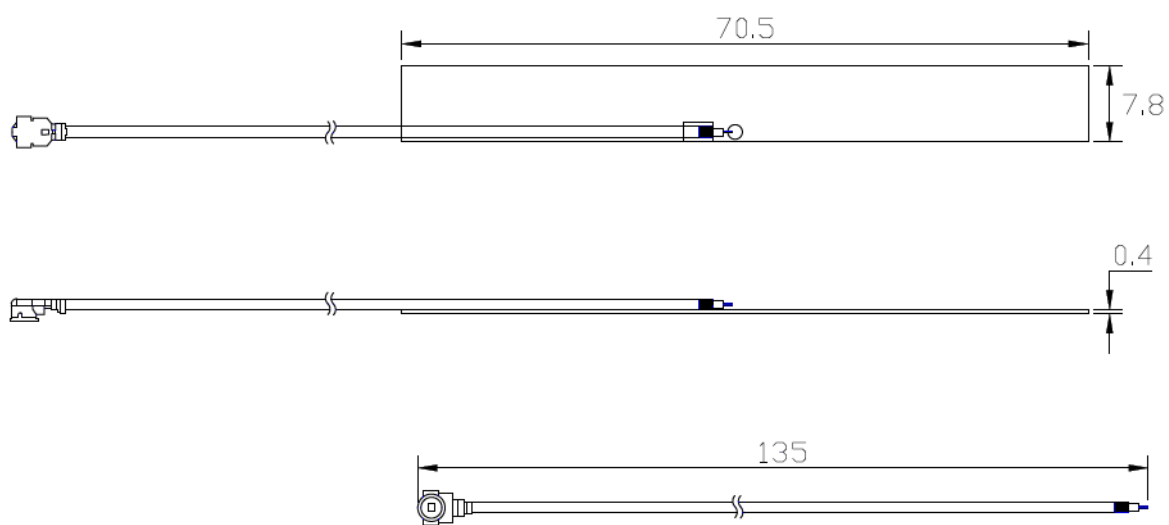
(3) Connector
N: Without connector **X:** With IPEX connector

(4) Cable Outer Diameter
1: 0.81mm **2:** 1.13mm **3:** 1.32mm **4:** 1.37mm

■ PCB Antenna Test Curve



■ Dimension



Unit : mm

Tolerance : $\pm 0.2\text{mm}$

Standard / Band	Designation	Freq(MHz)	Peak. dBi	Efficiency	Average. dBi
WCDMA 850	TX	824	-2.94	15.21%	-8.18
		836	-2.99	18.36%	-7.36
		849	-1.81	25.22%	-5.98
	RX	869	-0.10	34.80%	-4.58
		880	0.32	36.75%	-4.35
		894	0.81	40.96%	-3.88
WCDMA 900	TX	880	0.32	36.75%	-4.35
		900	1.19	42.86%	-3.68
		915	1.16	41.76%	-3.79
	RX	925	0.79	37.89%	-4.21
		940	0.75	36.27%	-4.40
		960	0.79	36.90%	-4.33
WCDMA 1700	TX	1710	2.05	46.84%	-3.29
		1750	1.79	47.02%	-3.28
		1785	1.58	46.11%	-3.36
	RX	1805	2.06	48.18%	-3.17
		1840	1.69	51.47%	-2.88
		1880	1.72	49.28%	-3.07
WCDMA 1900	TX	1850	1.53	50.08%	-3.00
		1880	1.72	49.28%	-3.07
		1910	1.54	52.78%	-2.77
	RX	1930	1.23	52.63%	-2.79
		1960	1.55	56.45%	-2.48
		1990	3.04	56.31%	-2.49
WCDMA 2100	TX	1920	1.41	53.38%	-2.73
		1950	2.28	54.31%	-2.65
		1980	1.43	58.30%	-2.34
	RX	2110	2.41	71.23%	-1.47
		2140	2.80	68.72%	-1.63
		2170	2.63	69.84%	-1.56

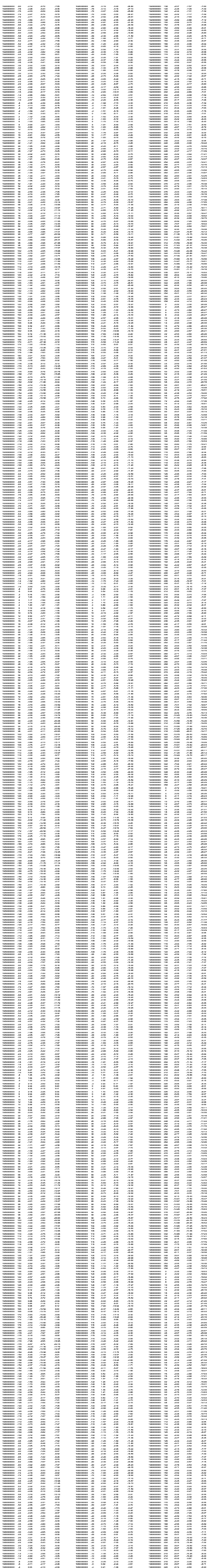
Standard / Band	Designation	Freq(MHz)	Peak. dBi	Efficiency	Average. dBi
LTE B12	TX	699	-6.94	5.72%	-12.43
		707	-7.14	5.87%	-12.31
		715	-7.27	6.45%	-11.91
	RX	729	-4.96	7.58%	-11.20
		737	-4.05	8.23%	-10.84
745		-3.23	8.96%	-10.48	
LTE B28	TX	703	-7.03	5.77%	-12.39
		735	-4.19	8.13%	-10.90
		748	-2.94	9.33%	-10.30
	RX	758	-2.13	10.53%	-9.77
		786	-2.30	13.55%	-8.68
803		-2.92	13.87%	-8.58	
LTE B20	TX	832	-3.14	16.74%	-7.76
		847	-1.92	24.20%	-6.16
		862	-0.69	31.98%	-4.95
	RX	791	-2.54	13.85%	-8.58
		806	-2.87	13.77%	-8.61
821		-2.92	14.73%	-8.32	
LTE B8	TX	880	0.31	36.72%	-4.35
		895	0.92	41.40%	-3.83
		910	1.43	44.60%	-3.51
	RX	920	0.98	40.07%	-3.97
		940	0.75	36.27%	-4.40
960		0.78	36.88%	-4.33	
LTE B3	TX	1710	2.06	46.85%	-3.29
		1750	1.80	47.01%	-3.28
		1785	1.60	46.08%	-3.36
	RX	1805	2.07	48.16%	-3.17
		1840	1.71	51.45%	-2.89
1880		1.69	49.26%	-3.07	
LTE B4	TX	1710	2.06	46.85%	-3.29
		1732	1.80	47.26%	-3.26
		1755	1.82	47.48%	-3.23
	RX	2110	2.43	71.37%	-1.47
		2132	2.83	65.81%	-1.82
2155		2.89	74.36%	-1.29	
LTE B2	TX	1850	1.56	50.05%	-3.01
		1880	1.69	49.26%	-3.07
		1910	1.55	52.78%	-2.78
	RX	1930	1.20	52.61%	-2.79
		1960	1.56	56.49%	-2.48
1990		3.03	56.34%	-2.49	
LTE B1	TX	1920	1.38	53.38%	-2.73
		1950	2.25	54.32%	-2.65
		1980	1.40	58.34%	-2.34
	RX	2110	2.43	71.37%	-1.47
		2140	2.80	68.85%	-1.62
2170		2.63	70.08%	-1.54	
LTE B7	TX	2500	-0.88	26.33%	-5.80
		2535	0.02	26.30%	-5.80
		2570	-0.01	22.87%	-6.41
	RX	2620	-0.65	20.48%	-6.89
		2655	-0.64	19.42%	-7.12
2690		-1.41	17.80%	-7.49	

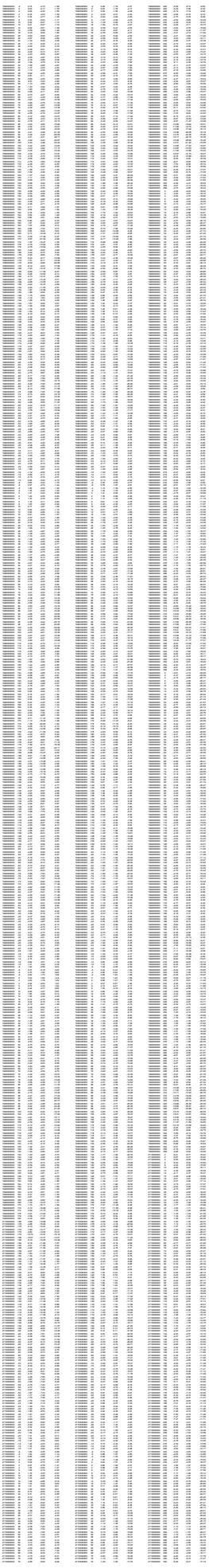
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