



承 認 書

APPROVAL SHEET

CUSTOMER: 錄森科技股份有限公司

CUSTOMER NO. : _____

FILE NO. : _____

DESCRIPTION: 2.4-2.5GHz Antenna

LITE P/N: CAR-ATR-118-001

DATE: 2007年8月22日

核 准 APPROVAL	業務部 SALES DEP.	品管部 Q. C DEP.	研發部 R&D. DEP.

堅詠工業有限公司

ADD:NO. 19, LANE 188, CHUNG-HSIN N. ST

SANCHUAN, TPIPEI HSIEN, TAIWAN R. O. C.

E-Mail: lite0485@ms15.hinet.net

[Http://www.liteconn.com](http://www.liteconn.com)

Tel:(886-2)-29950485

Fax:(886-2)-29957395

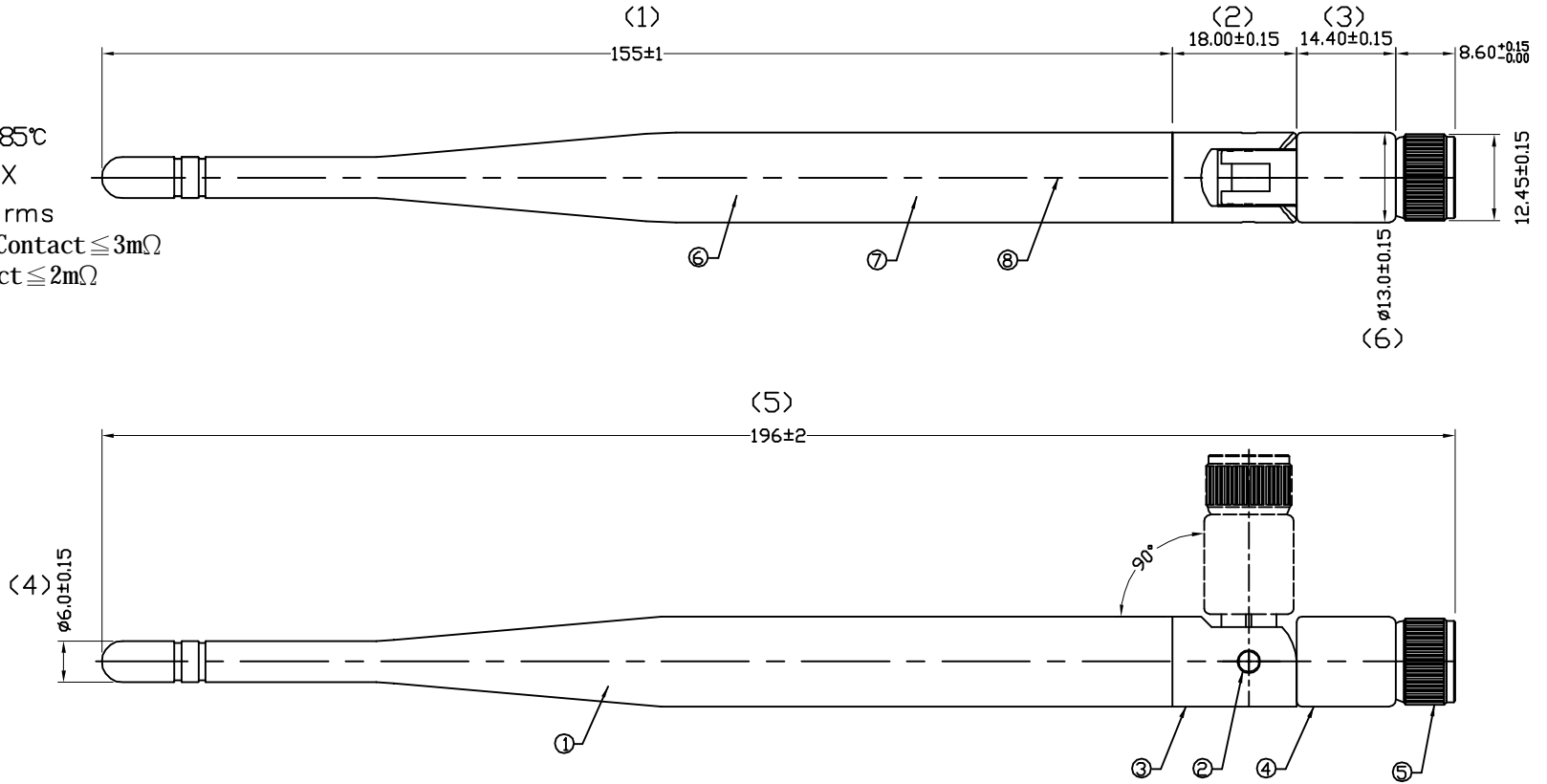
LITE METALS&PLASTIC(SHENZHEN)CO.,LTD.

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SPECIFICATIONS:

Frequency Range :2.4-2.5GHz
 Nominal Impedance: 50Ω
 VSWR: 2.0
 Gain :5.0dBMIN
 Radiation :Omni
 Polarization :Vertical
 Durability: 500 Cycles MIN
 Temperature Range : -40℃ to +85℃
 Working Voltage: 335V MAX
 Withstand Voltage: 1000V rms
 Contact resistance: Center Contact $\leq 3m\Omega$
 Outer Contact $\leq 2m\Omega$



NO	DESCRIPTION	MATERIAL	FINISH	Q'TY
1	INSULATOR	TPE BLACK		1
2	RIVET	BRASS	ZINE 80u'	2
3	INSULATOR	PC+ABS BLACK		1
4	INSULATOR	PC+ABS BLACK		1
5	ROTATE SMA	BRASS		1
6	CABLE	RG316 50Ohm		1
7	TUBE 6*24.5	BRASS		1
8	Spring 5.0*67.0mm	磷鋼		1

REV	ECN.NO:	BY	DATE
A0	NEW DWG	BING	06/12/14

- TOLERANCES - UNLESS OTHERWISE SPECIFIED		LITE 利德五金塑膠(深圳)有限公司 LITE METAL & PLASTIC(SHEN ZHEN) CO.,LTD.			
X.X ±0.25	X.X' ±3'		TITLE: 5dB 天線		
X.XX ±0.15	X.XX' ±1'		APPD: DWG NO: CAR-ATR-118-001		
X.XXX ±0.05	X.XXX' ±0.5'	CHECK:	DATE	SCALE	UNIT
		DRAW: NingXiaoBing	2006.12.14	FREE	mm
				PAGE	1

TECHNICAL DATA

Material/Finish:

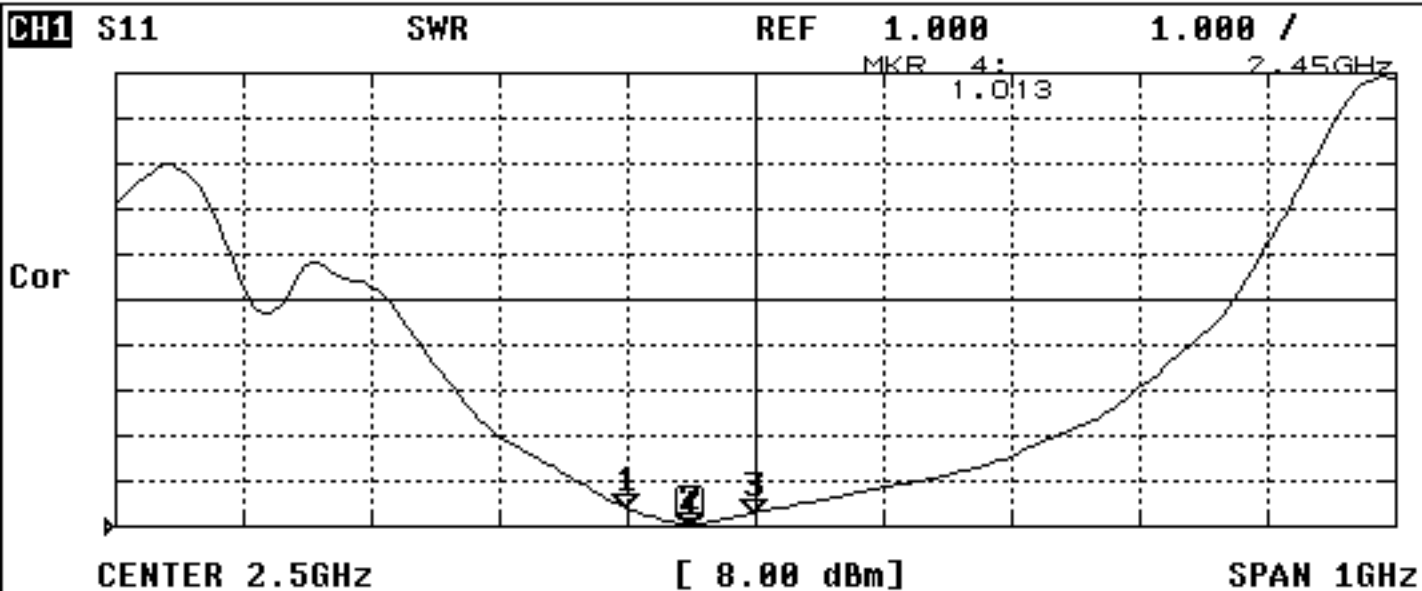
Name	Material	Finish
Connector body	Brass	Ni Plated
Center PIN	Phosphor bronze	Gold Plated
Insulator	PTFE	None
Plastic	PC+ABS (Black)	None
Plastic	TPE (Black)	None

Electrical:

Frequency Range	2.4-2.5GHz
Nominal Impedance	50
VSWR	2.0 MAX
Gain	5.0dBi MIN
Radiation	Omni
Polarization	Vertical

Mechanical & Environmental

Durability	500 Cycles MIN
Temperature Range	-55 to +165
Relative Humidity	MIL-STD-202, method 106
Vibration	MIL-STD-202, method 213
Corrosion	MIL-STD-202, method 101



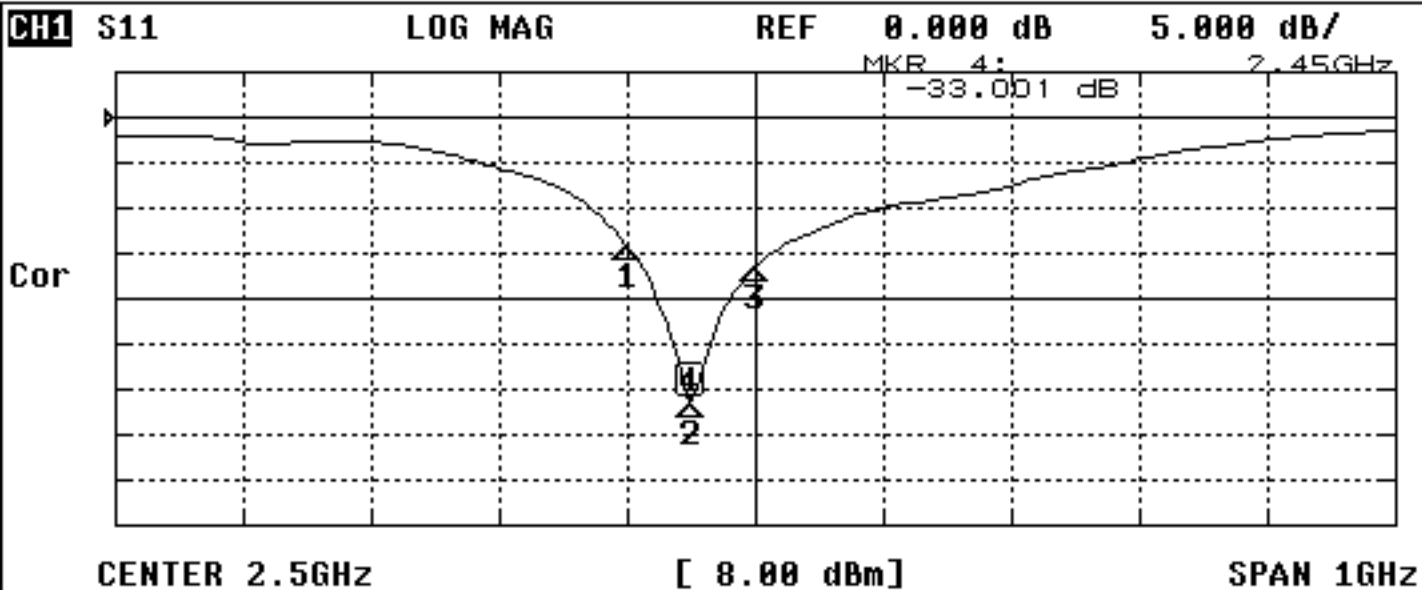
CH1 MARKER LIST

1:	2.400 000GHz	1.424
2:	2.450 000GHz	1.013
3:	2.500 000GHz	1.301
4:	2.450 000GHz	1.013
5:		
6:		
7:		
8:		
9:		
10:		

SWR ^{1]}REAL ^{2]}IMAG ^{3]}PHASE ^{4]}

-∞, +∞

LOG MAG & ^{5]}
PHASELOG MAG & ^{6]}
DELAYLIN MAG & ^{7]}
PHASEMore 2/2 ^{8]}



CH1 MARKER LIST

1:	2.400 000GHz	-14.835 dB
2:	2.450 000GHz	-31.446 dB
3:	2.500 000GHz	-16.576 dB
4:	2.450 000GHz	-31.446 dB
5:		
6:		
7:		
8:		
9:		
10:		

LOG MAG

PHASE

DELAY

SMITH
(R+jX)SMITH
(G+jB)

POLAR

LIN MAG

More 1/2

CH1

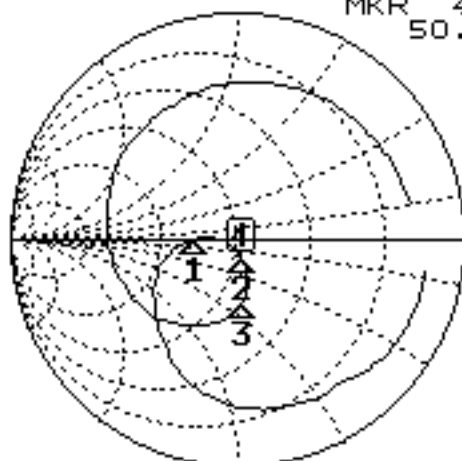
S11

SMITH(G+jB)

FS 1.000

MKR 4:
50.998 Ω 2.45GHz
-7.963 Ω

Cor



CENTER 2.5GHz

[8.00 dBm]

SPAN 1GHz

LOG MAG 1]

PHASE 2]

DELAY 3]

SMITH
(R+jX) 4]SMITH
(G+jB) 5]

POLAR 6]

LIN MAG 7]

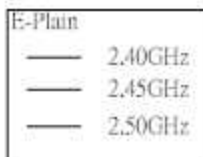
More 1/2 8]

CH1 MARKER LIST

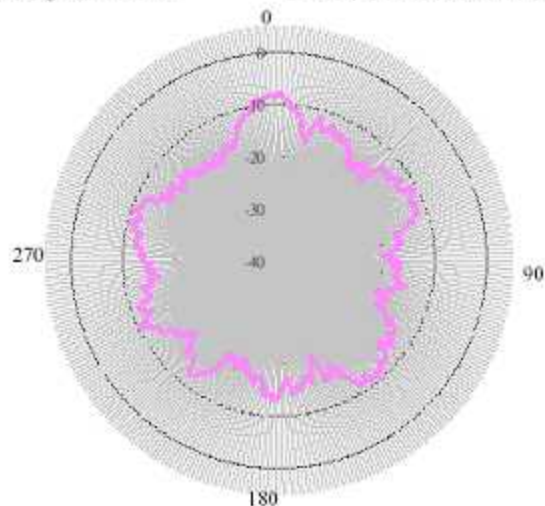
1:	2.400 000GHz	33.312 Ω	194.031m Ω	12.867pH
2:	2.450 000GHz	50.998 Ω	-7.963 Ω	8.157pF
3:	2.500 000GHz	43.045 Ω	-26.575 Ω	2.395pF
4:	2.450 000GHz	50.998 Ω	-7.963 Ω	8.157pF
5:				
6:				
7:				
8:				
9:				
10:				

Frequency 2.45GHz

E Plan Filed Patterns

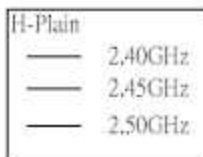


Peak Gain
2.40GHz (5.12)
2.45GHz (5.22)
2.50GHz (5.08)



Frequency 2.45GHz

H Plane Filed Patterns



Peak Gain
2.40GHz (5.12)
2.45GHz (5.02)
2.50GHz (5.00)

