

MDL L1L2L6/N 3-5V SMA PLUG RG174 5cm 1

GPSLX09N-S6-00-A

1. Application :

This application shall apply for antenna unit which shall be used with an engine for an automobile.
(For impedance 50Ω)

2. Appearance :

Antenna Unit (with radome, connector, and cable— refer to an attached drawing)

Dimensions	51.70*52.40*16.91 mm	;	Radome	#N
Connector	SMA PLUG	;	Cable	RG174, 50mm
PCB	Lead free	;		

3. Operating Condition :

Temperature -30 to +85 °C

4. Storage Condition :

Temperature -30 to +85 °C
Humidity 65±20 % RH

5. Electrical Specification :

* All value are defined at 25±15 °C ,65±20 % RH, power handling 1 u watt, air pressure 960 ±100 HPA unless otherwise noted.

* Patch characteristics are measured in an anechoic chamber.

5-1 Patch Specification

Characteristics	Specification	
Frequency Range	L1: 1557~1606 MHz	L2/L6: 1222.6~1282.75 MHz
Center Frequency	1582 MHz	1253 MHz
Peak Gain	1.1 dBic typ	0.5 dBic typ
Polarization	R.H.C.P	
Zenith Axial Ratio	3dB Max	

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
 ANGLES = ± HOLE DIA = ±



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SCALE : N/A

UNIT : mm

DRAWN BY: 林純正

CHECKED BY: 林純正

DESIGNED BY: 許振璋

APPROVED BY: 蔡凱翔

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TITLE : MDL GPSL1L2L6/N 3-5V SMA PLUG RG-174
5cm 1 GPSLX09N-S6-00-A

DOCUMENT NO.

ENS000121990

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5-2 Filter/LNA Specification

Characteristics	Specification	
Frequency	L1:1557~1606 MHz	L2/L6: 1222.6~1282.75 MHz
Gain	27±3dB(1557MHz)	27±3dB(1222.6MHz)
	27±3dB(1575.42MHz)	27±3dB(1227.6MHz)
	26±3dB(1602MHz)	27±3dB(1278.75MHz)
	25±3dB(1606MHz)	27±3dB(1282.75MHz)
Noise Figure	2.0 dB typ	2.0 dB typ
Filter Outband attenuation	40.0dB TYP. @ fo±100MHz (fo = 1557 & 1606 MHz)	40.0dB TYP. @ fo±100MHz (fo = 1222.6 & 1282.75 MHz)
Output V.S.W.R	2.0 typ	2.0 typ
Operation Voltage	3-5V	3-5V
Current	29±3 mA	29±3 mA

5-3 Overall Specification (Through Patch and LNA without cable loss)

Characteristics	Specification	
Frequency	L1:1557~1606 MHz	L2/L6: 1222.6~1282.75 MHz
Gain	28.1±3dB(1557MHz)	27.5±3dB(1222.6MHz)
	28.1±3dB(1575.42MHz)	27.5±3dB(1227.6MHz)
	27.1±3dB(1602MHz)	27.5±3dB(1278.75MHz)
	26.1±3dB(1606MHz)	27.5±3dB(1282.75MHz)
Output Impedance	50ohm	50ohm
Output V.S.W.R	2.0 typ	2.0 typ
Operation Voltage	3-5V	3-5V
Current	29±3 mA	29±3 mA

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
 ANGLES = ± HOLE DIA = ±



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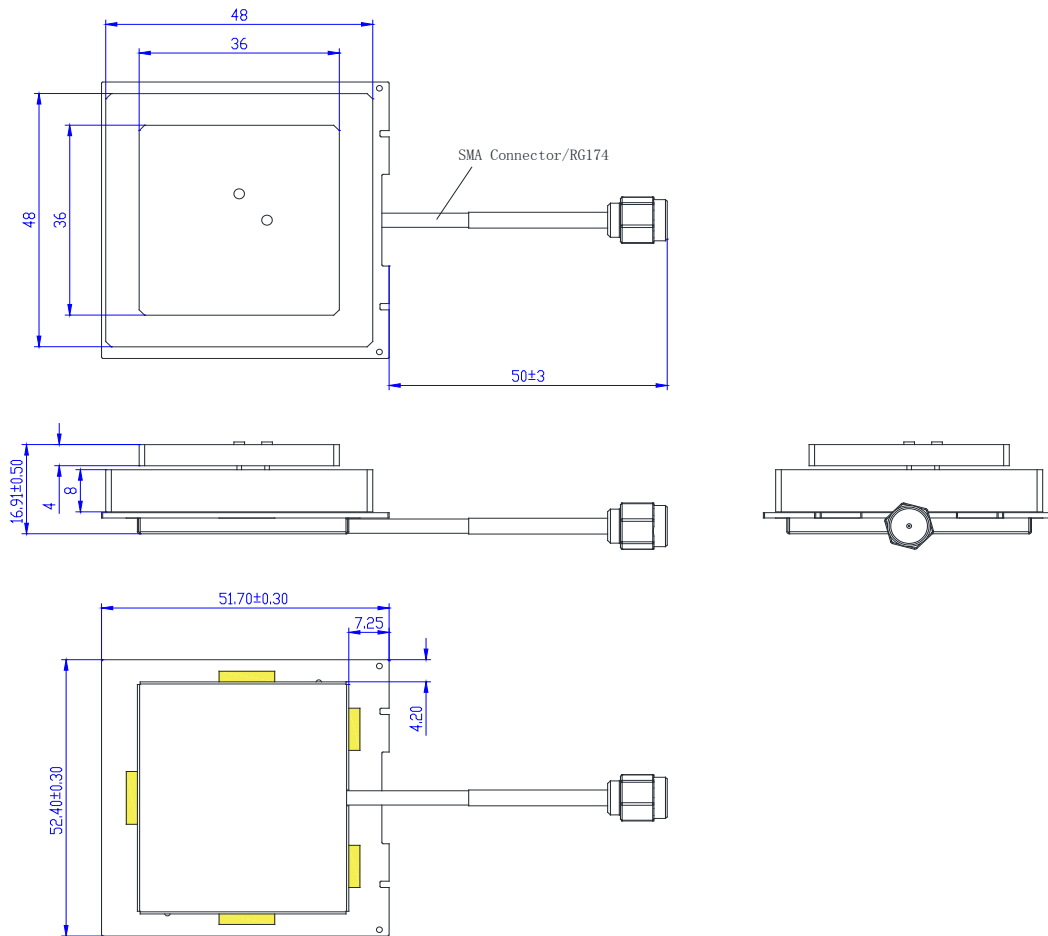
SCALE : N/A UNIT : mm
 DRAWN BY: 林純正 CHECKED BY: 林純正
 DESIGNED BY: 許振璋 APPROVED BY: 蔡凱翔

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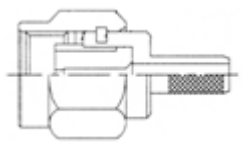
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6. Antenna Dimensions : (unit : mm)



Connector appearance: SMA PLUG (內牙公針)



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SCALE : N/A	UNIT : mm		DOCUMENT NO.	ENS000121990
DRAWN BY: 林純正	CHECKED BY: 林純正	TITLE : MDL GPST1L2L6/N 3-5V SMA PLUG RG-174 5cm 1 GPSTX09N-S6-00-A		
DESIGNED BY: 許振璋	APPROVED BY: 蔡凱翔			