



GPS/GALILEO Through Hole Patch Antenna 15mm

SZC-N-0G11

GNSS: 1575.42 MHz

Description

A miniaturized ceramic GPS/GALILEO solution, 15 x 15 (mm) Through hole mount and double-sided adhesive ceramic patch. This antenna is tuned best paced at the center of a 50 x 50 (mm).

- For GPS/GALILEO constellations
- High performance
- Through hole soldering with self-adhesive backing

Applications

Asset Tracking Drones M2M Industrial Telematics Fleet Management Remote Monitoring









General Specifications

Mechanical Specifications

Part Number	SZC-N-0G11
Name	ARCADYa
Dimensions	15.0 x 15.0 x 4.0 (mm)
Weight	Зg
Antenna Type	Through Hole Device

RF Specifications

Frequency Range (MHz)	Efficiency (%) At centre frequency	Peak Gain (dBi)	Impedance	Polarization
1575.42±1.023	>50	1.50	50Ω	RHCP
	1770.0			
Centre Frequency	1578 ±2			
Bandwidth	≥6 MHz			
Axial Ratio	3dB			

*All performance stated is measured of SZDV-N-0G11 evaluation kit

Environmental Specifications

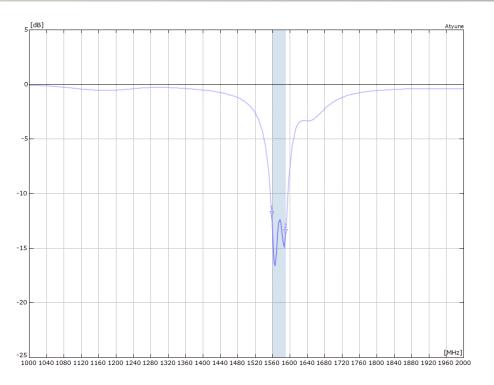
Operational Temperature	-40 to +85 (°C)
Storage Temperature	-10 to +40 (°C)
Relative Humidity	≤75%



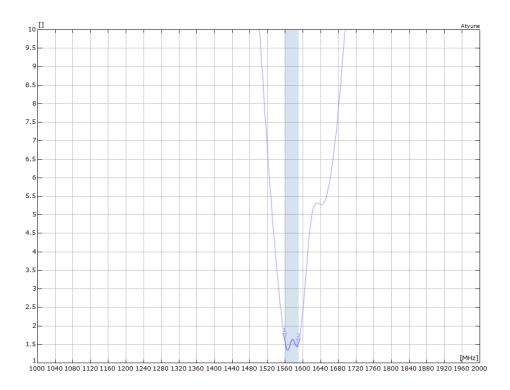


RF Characteristics

S11 Parameter



VSWR



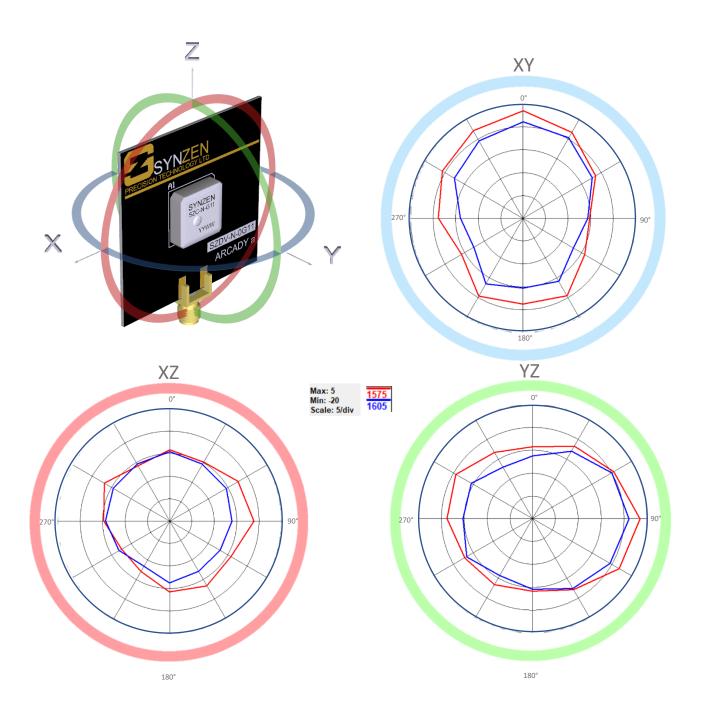




Radiated Performance

2D Polar Plots

The data shown was measured on Synzen EVK (SZDV-N-0G11)



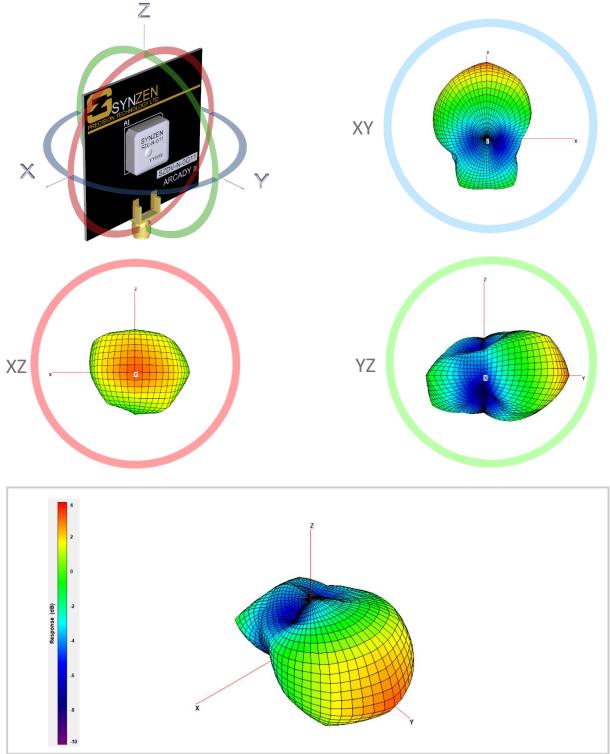




Radiated Performance

3D Radiation Pattern

The data shown was measured on Synzen EVK (SZDV-N-0G11). The frequency point shown here is 1575MHz.

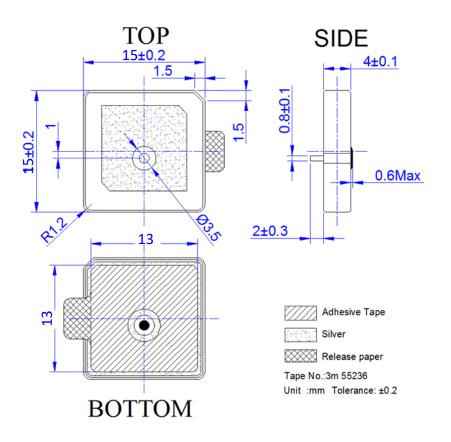






Mechanical

Antenna Mechanical Drawing



Required Host PCB Footprint

PCB library files and DXF is available from our website <u>www.synzen.com.tw/products</u>.

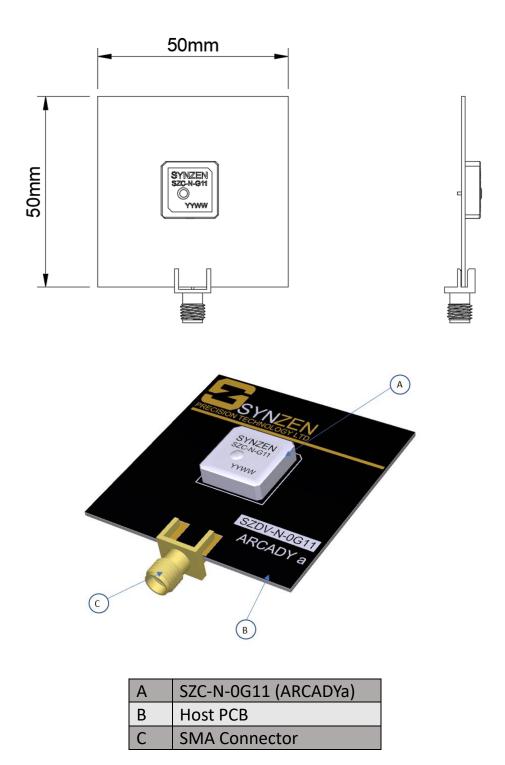




Evaluation Kit

SZDV-N-0G11 Evaluation Kit

The SZDV-N-0G11 evaluation kit is a PCBA with the antenna (SZC-N-0G11) fitted and optimised with a matching network. Connection to the antenna is made using the fitted female SMA connector.







Packaging

Plastic tray	Inner box	Outside box
60 Pcs/tray	300 Pcs/box	1200Pcs/box

Environmental

Material Regulation

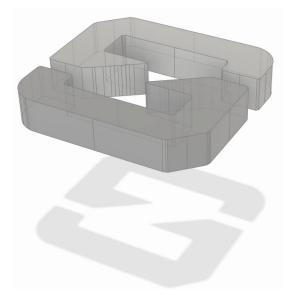
The antenna has been tested to conform to RoHS requirements. A certificate of conformance is available upon request.

Description	Material	Specification
Antenna Substrate	Microwave dielectric	45±2
Pin	Copper and Ag-plated	4MM
Electrode	Ag Plated	
Adhesive Type	3M 55236	\$15.1*15.1
Sn	Sn:Ag:Cu	96.5:3:0.5









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