

NANEA45X35PJG1CF

GNSS L1 Active External Antenna



Description

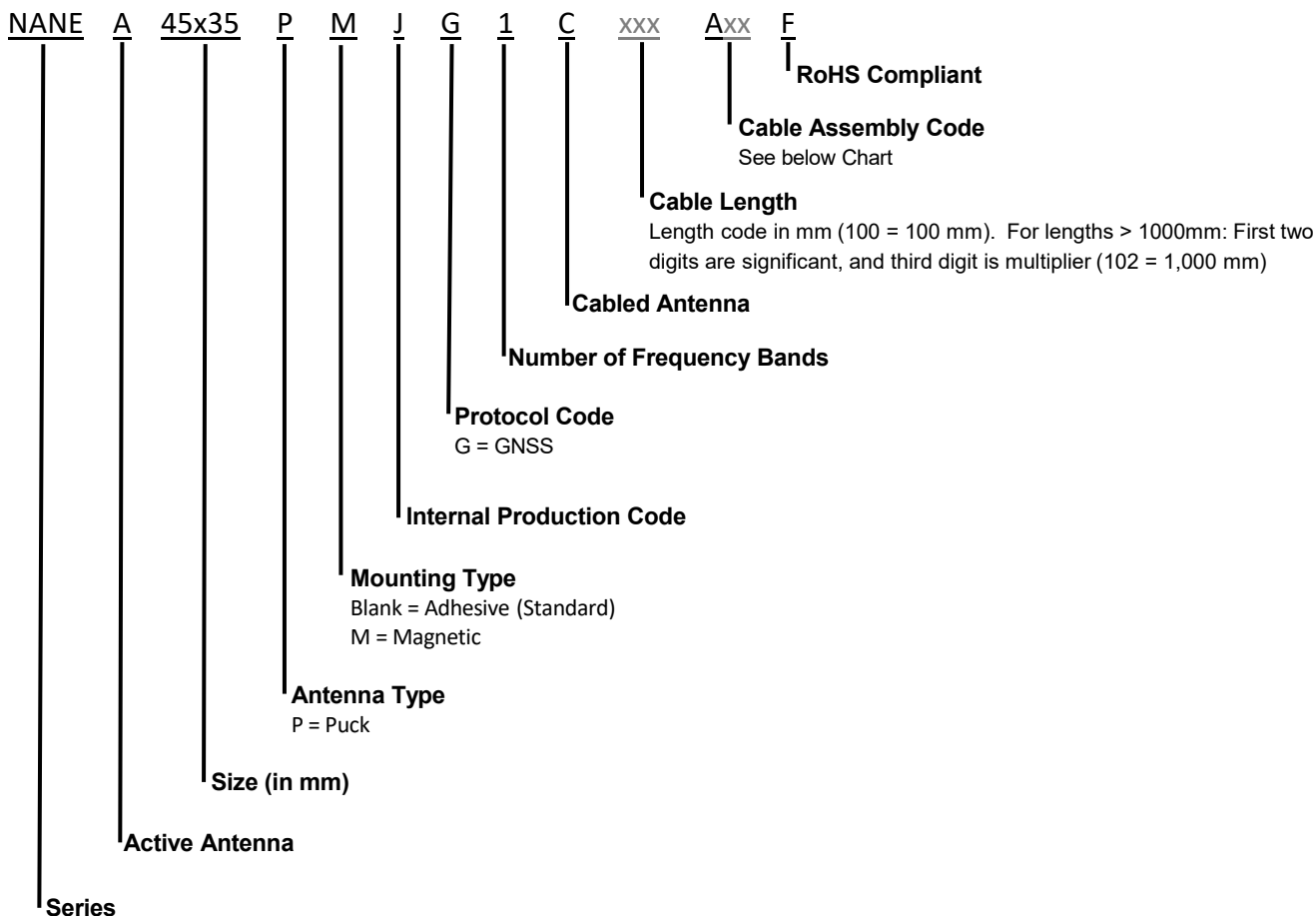
The NANEA45X35PJG1CF is the base part number for an External Active Antenna designed for GNSS + GLONASS applications. It operates within the frequency ranges of 1575.42 ~ 1602MHz making it perfect for Fleet Management & Tracking.



Features

- GNSS + GLONASS protocol
- Waterproof (IP65 ~ IP67)
- Customizable Cable & Connectors
- RoHS Complaint

Part Number Breakdown



Part Number Options

Part Number	Protocol	Connector	Cable Type	Cable Length	Mounting Method
NANEA45X35PJG1C200A0F	GNSS & GLONASS	SMA Male	RG174	200 mm	Adhesive
NANEA45X35PJG1C302A0F	GNSS & GLONASS	SMA Male	RG174	3000 mm	Adhesive
NANEA45X35PMJG1C302A0F	GNSS & GLONASS	SMA Male	RG174	3000 mm	Magnetic
NANEA45X35PJG1C502A0F	GNSS & GLONASS	SMA Male	RG174	5000 mm	Adhesive
NANEA45X35PJG1C702A0F	GNSS & GLONASS	SMA Male	RG174	7000 mm	Adhesive
NANEA45X35PJG1C102A1F	GNSS & GLONASS	FAKRA	RG174	1000 mm	Adhesive
NANEA45X35PJG1C202A1F	GNSS & GLONASS	FAKRA	RG174	2000 mm	Adhesive
NANEA45X35PJG1C302A1F	GNSS & GLONASS	FAKRA	RG174	3000 mm	Adhesive
NANEA45X35PJG1C702A1F	GNSS & GLONASS	SMA Male	RG174	7000 mm Cable 7000 mm Sleeve	Adhesive
NANEA45X35PJG1C702A1SF	GNSS & GLONASS	SMA Male	RG174	7000 mm Cable 7000 mm Sleeve Heat Shrinking Tube	Adhesive
NANEA45X35PJG1C302A2F	GNSS & GLONASS	SMA Male	RG174	3000 mm Cable 3000 mm Sleeve	Adhesive

The table represents assembled part numbers available on www.niccomp.com. For options not listed above please contact NIC

Specifications

Electrical

Frequency Range	1575.42 ~ 1602 MHz
Bandwidth	CF $\pm$ 5 MHz
Gain	2 dBic (Zenith)
V.S.W.R	< 1.5
Axial Ratio	3 dB (max)
Polarization	RHCP
Impedance	50 Ω
Internal Patch Dimension	25 x 25 x 4 mm

LNA

Gain	28 $\pm$ 2dB
Noise Figure	< 1.5
Filter Insertion Loss	< 3 dB
EX- band Attenuation	12dB @ CF + 50 MHz 16dB @ CF - 50 MHz
Supply Voltage	2.2 ~ 5V DC
Current Consumption	5 - 15mA
V.S.W.R.	< 2.0

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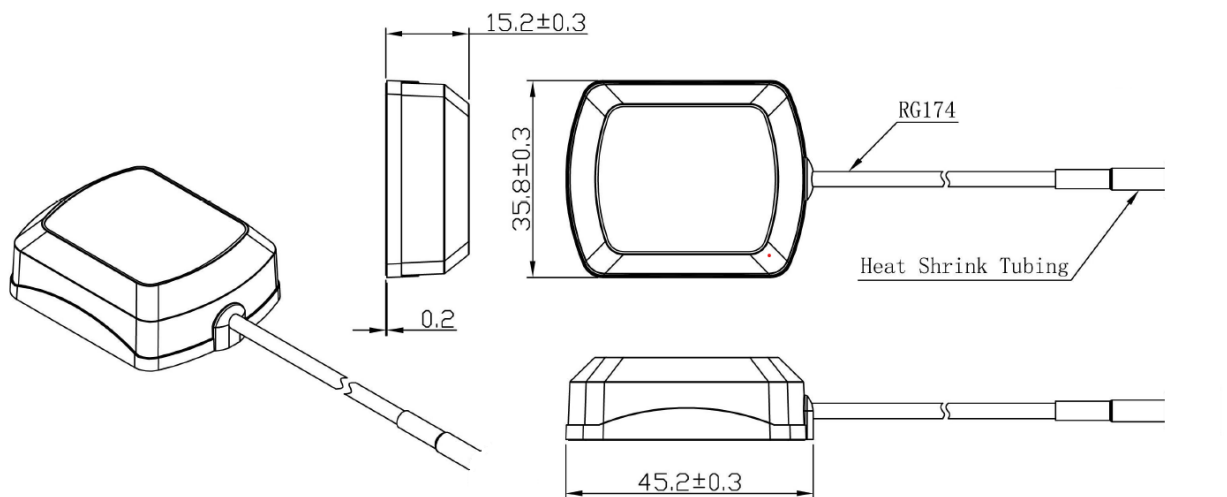
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Environmental

Operating Temperature	-40°C~+85°C
Relative Humidity	Up to 95%
Ingress Protection	IP65 - IP67
Vibration	10 ~ 55Hz 1.5mm Amplitude 2 Hours
Mounting Method	Magnet / Adhesive
Radome Material	ABS
RoHS Compliant	Yes

Dimensions



UNIT: mm

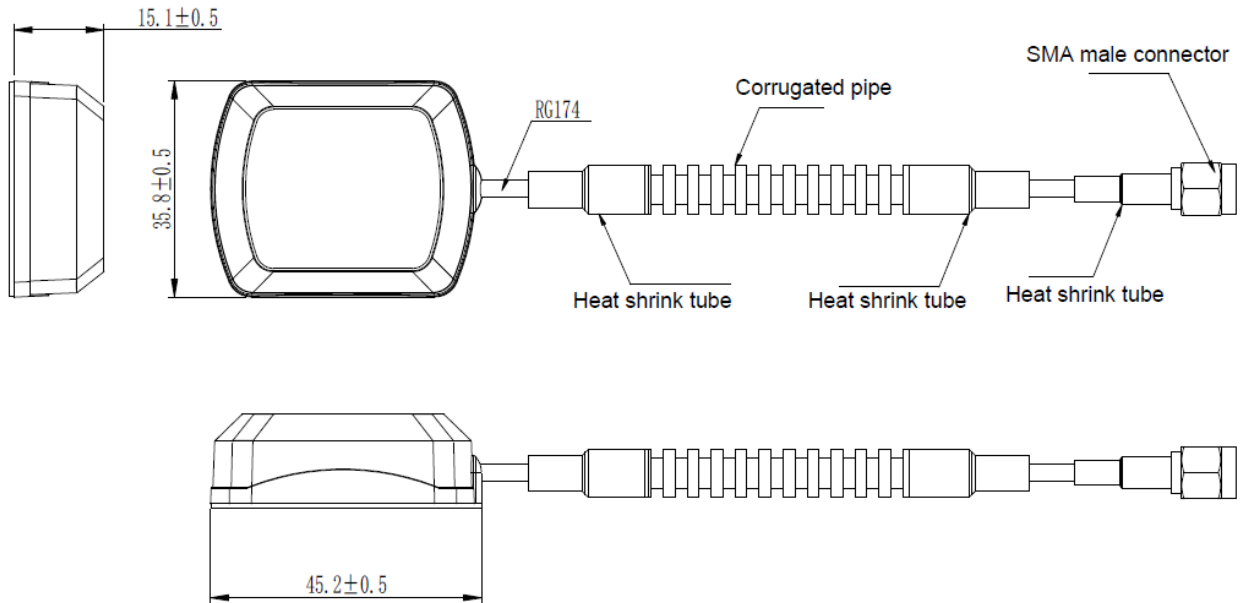
**Standard Cable Assembly

NANEA45X35PJG1CF

GNSS L1 Active External Antenna



Dimensions continued...



UNIT:MM

**Cable Assembly for NANEA45X35PJG1C702A1SF with added Heat Shrinking Tubes

RADIATION PATTERN

