

## High Band Cellular PCB Antenna

Part Number: **PIOV.00V.NRA.A**

### Features and Benefits

- Balanced antenna with independent ground
- Compact 60mm by 15mm size
- 45% antenna efficiency for cellular high band antenna



### Application

- Smart home
- Industrial applications (Machine to machine (M2M) communication, etc.)
- Consumer electronics (CE) applications (Mobile POS, Mobile gaming devices, etc.)
- Medical (Telemedicine and telehealth device, etc.)
- Automotive applications (T-Box, Infotainment devices, etc.)



Automotive

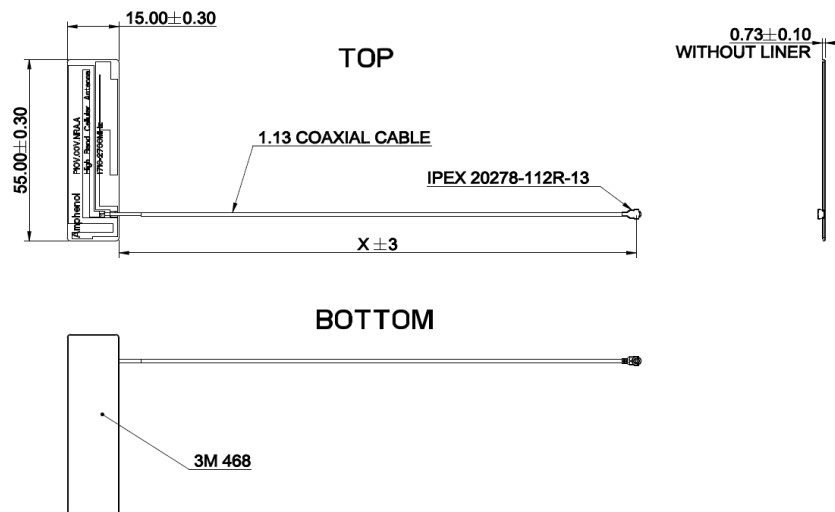


Consumer Electronics



Smart Home

### Product Drawing



## Specifications

Band (MHz)	1710	2170	2300	2700
Return loss (dB)	-7.6	-5.0	-12.1	-4.7
Efficiency	43%	44%	65%	40%
Peak gain (dBi)	1.2	1.4	3.0	2.5
VSWR	≤3.7			
Impedance	50 ohms			
Polarization	Linear			
Radiation Pattern	Omni-directional			
Test environment	In free space			
Power handled	5W			
Dimensions	60*15*0.8mm			
Operation temperature	-40°C ~ +85°C			
Storage temperature	-40°C ~ +85°C			
Weight	1.09 g			
Connector	IPEX MHF			
Cable standard	1.13 coaxial cable, length X (Std.: 150mm)			
RoHS compliant	Yes			
Adhesive	3M 468			

## Signal attenuation along cable effect on antenna efficiency

Part Number	Coaxial cable length (mm)	Frequency (MHz)	Peak gain (dBi)	Total efficiency
PIOV.00V.NRA.A-050	50	1710	1.4	45%
		2700	2.7	43%
PIOV.00V.NRA.A-100	100	1710	1.3	44%
		2700	2.6	42%
PIOV.00V.NRA.A-150	150	1710	1.2	43%
		2700	2.5	40%
PIOV.00V.NRA.A-200	200	1710	1.1	42%
		2700	2.4	39%