

5GHz Band PCB Antenna

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

Features and Benefits

- Balanced antenna with independent ground
- Compact 20mm by 12mm size
- 77% antenna efficiency for 5GHz band antenna

Application

- Telecommunications/Networking
(Wi-Fi devices, Wireless LAN (WLAN))
- Industrial applications (Machine to machine (M2M) communication, etc.)
- Consumer electronics (CE) applications
(Cameras, Mobile gaming devices, etc.)
- Medical
(Telemedicine and telehealth device, etc.)
- Automotive applications



Automotive

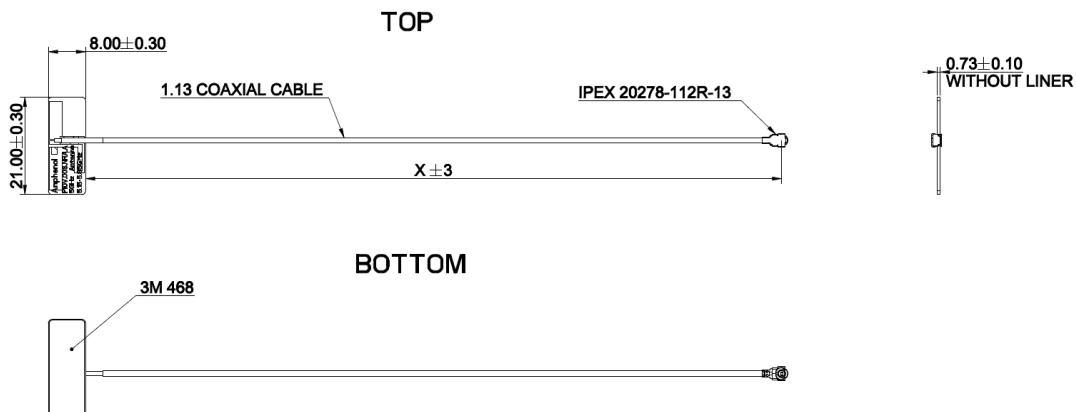


Consumer Electronics



Medical

Product Drawing



Specifications

Band (MHz)	5150	5850
Return loss (dB)	-11.5	-14.1
Efficiency	77%	74%
Peak gain (dBi)	2.8	3.3
VSWR	≤1.7	
Impedance	50 ohms	
Polarization	Linear	
Radiation Pattern	Omni-directional	
Test environment	Antenna on 1.5mm thicker plastic carrier in free space	
Power handled	5W	
Dimensions	20*12*0.8mm	
Operation temperature	-40°C ~ +85°C	
Storage temperature	-40°C ~ +85°C	
Weight	0.22 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 (GHz)	Peak gain (dBi)	Total efficiency
PIOV.00S.NRA.A-050	50	5.15	3.2	85%
		5.85	3.7	81%
PIOV.00S.NRA.A-100	100	5.15	3.0	81%
		5.85	3.5	77%
PIOV.00S.NRA.A-150	150	5.15	2.8	77%
		5.85	3.3	74%
PIOV.00S.NRA.A-200	200	5.15	2.6	74%
		5.85	3.1	71%