

## 5GHz Band Flexible Antenna

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



### Features and Benefits

- Balanced antenna with independent ground
- Compact 19mm by 14mm size
- 76% 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

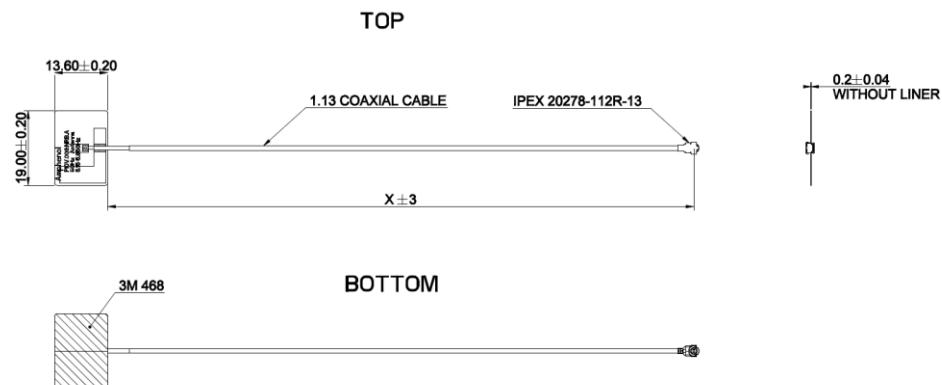


Consumer Electronics



Medical

### Product Drawing



## Specifications

Band (GHz)	5.15	5.85
Return loss (dB)	-19.7	-10.9
Efficiency	76%	67%
Peak Gain (dBi)	2.9	3.3
VSWR	$\leq 1.8$	
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	19*14*0.2mm	
Operation temperature	-40°C ~ +85°C	
Storage temperature	-40°C ~ +85°C	
Weight	0.08 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.NRB.A-050	50	5.15	3.3	83%
		5.85	3.8	76%
PIOV.00S.NRB.A-100	100	5.15	3.1	79%
		5.85	3.6	71%
PIOV.00S.NRB.A-150	150	5.15	2.9	76%
		5.85	3.3	67%
PIOV.00S.NRB.A-200	200	5.15	2.7	73%
		5.85	3.0	63%