

## 2.4GHz Band Flexible Antenna

Part Number: PIOV.00M.NRB.A

### Features and Benefits

Balanced antenna with independent ground

Compact 32mm by 13mm size

80% antenna efficiency for 2.4GHz 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

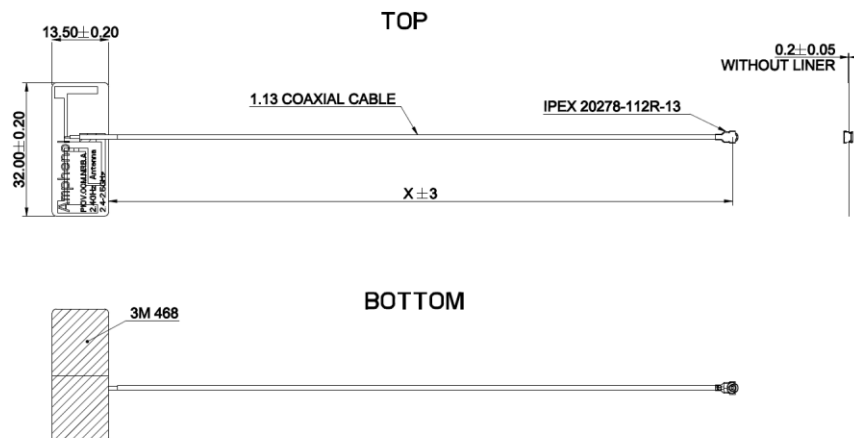


Consumer Electronics



Smart Home

### Product Drawing



## Specifications

Band (MHz)	2.4	2.48
Efficiency	-22.5	-20.4
Peak gain (dBi)	82%	78%
Return loss (dB)	2.4	1.9
VSWR	$\leq 1.3$	
Impedance	50 ohms	
Polarization	Linear	
Radiation Pattern	Omni-directional	
Test environment	Antenna on 1.5mm plastic carrier in free space	
Power handled	5W	
Dimensions	32*13*0.2mm	
Operation temperature	-40°C ~ +85°C	
Storage temperature	-40°C ~ +85°C	
Weight	0.16 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.00M.NRB.A-050	50	2.4	2.6	86%
		2.48	2.1	82%
PIOV.00M.NRB.A-100	100	2.4	2.5	84%
		2.48	2	80%
PIOV.00M.NRB.A-150	150	2.4	2.4	82%
		2.48	1.9	78%
PIOV.00M.NRB.A-200	200	2.4	2.3	81%
		2.48	1.8	76%

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