

2.4GHz/5GHz Band Flexible Antenna

Part Number: PIOV.0MS.NRB.A



Features and Benefits

- Balanced antenna with independent ground
- Compact 36mm by 12mm size
- 72% antenna efficiency for 2.4GHz/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

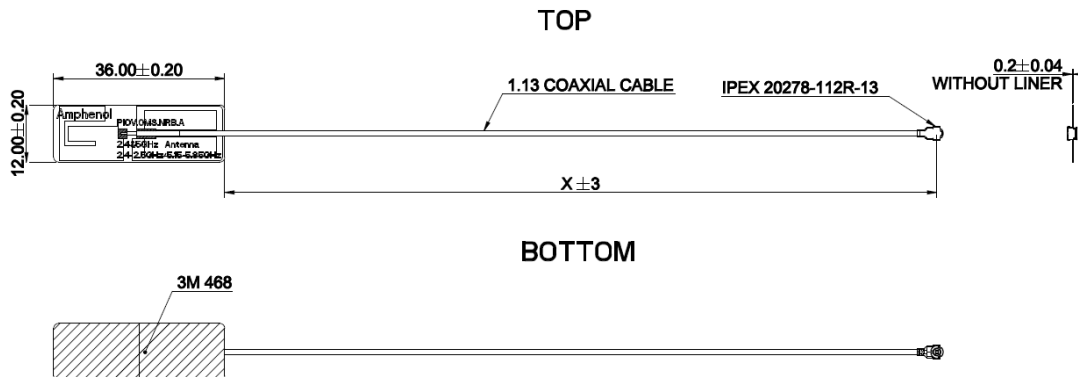


Consumer Electronics



Medical

Product Drawing



Specifications

Band (GHz)	2.4	2.48	5.15	5.85
Return loss (dB)	-15.2	-15.3	-9.5	-18.1
Efficiency	66%	70%	68%	72%
Peak Gain (dBi)	3.8	3.9	3.5	4.6
VSWR	≤1.99			
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	36*12*0.2mm			
Operation temperature	-40°C ~ +85°C			
Storage temperature	-40°C ~ +85°C			
Weight	0.18 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.0MS.NRB.A-050	50	2.4	4.0	69%
		2.48	4.1	73%
		5.15	3.9	74 %
		5.85	5.1	82%
PIOV.0MS.NRB.A-100	100	2.4	3.9	68%
		2.48	4.0	72%
		5.15	3.7	71%
		5.85	4.9	77%
PIOV.0MS.NRB.A-150	150	2.4	3.8	66%
		2.48	3.9	70%
		5.15	3.5	68%
		5.85	4.6	72%
PIOV.0MS.NRB.A-200	200	2.4	3.7	64%
		2.48	3.8	68%
		5.15	3.3	65%
		5.85	4.3	68%