

# 2.4GHz/5GHz Band PCB Antenna

Part Number: PIOV.0MS.NRA.A



#### **Features and Benefits**

Balanced antenna with independent ground

Compact 36mm by 12mm size

73% 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

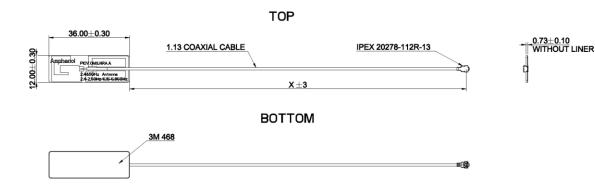


Consumer Electronics



Medical

#### **Product Drawing**



### **Specifications**

2.4	2.48	5.15	5.85	
-12.5	-9.5	-11.9	-29.6	
70%	72%	72%	73%	
3.8	3.8	4.4	4.8	
≤2				
50 ohms				
Linear				
Omni-directional				
Antenna on 1.5mm thicker plastic carrier in free space				
5W				
36*12*0.8mm				
-40℃ ~ +85℃				
-40℃ ~ +85℃				
0.55 g				
IPEX MHF				
1.13 coaxial cable, length X (Std.: 150mm)				
Yes				
3M 468				
	-12.5 70% 3.8 Antenna on 1.5	-12.5	-12.5	

## Signal attenuation along cable effect on antenna efficiency

Part Number	Coaxial cable length (mm)	Frequency (GHz)	Peak gain (dBi)	Total efficiency
PIOV.0MS.NRA.A-050		2.4	4	74%
	50	2.48	4	76%
		5.15	4.8	78%
		5.85	5.2	79%
PIOV.0MS.NRA.A-100		2.4	3.9	72%
	100	2.48	3.9	74%
		5.15	4.6	75%
		5.85	5.0	76%
PIOV.0MS.NRA.A-150		2.4	3.8	70%
	150	2.48	3.8	72%
		5.15	4.4	72%
		5.85	4.8	73%
PIOV.0MS.NRA.A-200		2.4	3.6	68%
	200	2.48	3.6	70%
		5.15	4.2	69%
		5.85	4.6	70%