



MPA-258-L1-L5

GPS L1 L5 MICROSTRIP ANTENNA

Part #: 189-00057-01

Description

The MPA-258-L1-L5 is a high gain antenna customized for GPS L1 L5 frequencies. The MPA-258-L1-L5 is a multiband high-performance antenna for high precision GPS and L1 L5 accuracy and positioning. MPA-258-L1-L5 designed for embedded applications which feature GPS L1+L5 such as asset tracking and IOT solutions. The MPA-258-L1-L5 utilizes a special advanced wide-band dual-stacked ceramic patch antenna which leads to higher upper hemisphere efficiency and a lower axial ratio as compared to regular patch antennas. This allows the antenna to be superior and a top choice for demanding GPS L1+L5 multiband/multifrequency antenna requirements.



Electrical Specifications

Parameter	Specification	
Range Of Receiving Frequency	1575.42 ± 1.023 MHz	1176.45 ± 12 MHz
Center Frequency	1575 ± 3 MHz	1175 ± 3 MHz
Bandwidth	≥ 22 MHz	≥ 3 MHz
Gain at Zenith	1.8 dB i typ.	0.5 dB i typ.
Return Loss	-10 dB	
VSWR	≤ 1.8	
Polarization	RHCP	
Impedance	50 Ω	

Features

- GPS L1 L5 frequency
- Dual stacked patch
- Thru-Hole Mount
- Compact size
- Ceramic Material
- Advanced Ceramic Materials
- High Performance
- Dimensions 25 x 25 x 8 mm

Mechanical Specification

Parameter	Specification
Antenna Dimensions	25 x 25 x 8 mm
Operating Temperature	-40°C to 105°C

Applications

- IoT applications
- RTK
- Agriculture
- Navigation
- Security
- Autonomous Vehicles
- Transportation

