



APPLICATIONS

- Bluetooth
- Global position systems (GPS)
- Wireless LAN (WLAN) Systems

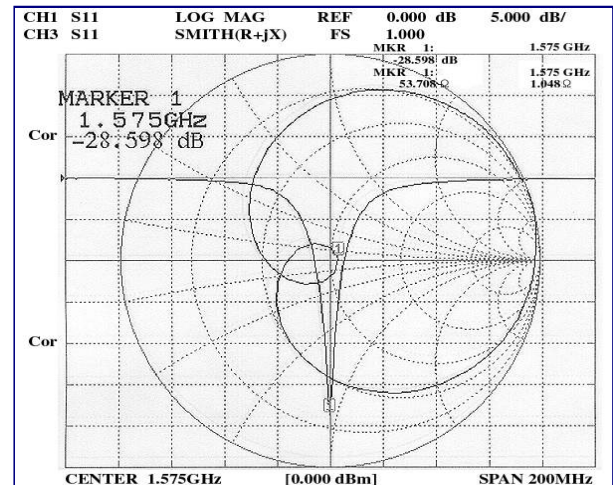
FEATURES

- Small size, light weight and low profile
- Frequency range includes GPS (L1, L2) and WLAN
- High dielectric constant
- Provide excellent performance utilizing high quality factor (Q) dielectric materials
- Low and tight temperature coefficient
- Various sizes available:
 - Chip antennas:
 - 4mm X 6mm (.157" X.236")
 - 6.7mm X 9.8mm (.263" X.385")
 - 8mm X 8 mm (.315" X.315")
 - Patch antennas:
 - 13mm (.5") 18mm (.7")
 - 20mm (.8") 25mm (1.0")
 - 36mm (1.4") 60mm (2.3")
 - square and 16 mm (6.3") dia.
- Surface mount for Chip and Patch antennas
- Omnidirectional, radiational pattern

TYPICAL PROPERTIES

Application	Bluetooth	GPS	WLAN
Center Frequency	2442 MHz	1570-1580 MHz	2450 MHz
Bandwidth (in 10dB)	200 MHz	5 - 15 MHz	50 MHz
Return Loss	16 - 20 dB	15 dB	15 dB
Gain	2.8 dB	0 - 6 dB	2.15 dB

TYPICAL PERFORMANCE



Sample Part Number: MA-SP-1575L25

MCV Technologies, Inc., a volume supplier of microwave microelectronics and components, utilizes a 45,000 square foot manufacturing facility to provide its customers with technically advanced, high quality products at competitive prices. The facilities have been ISO 9001, ISO 9002, and ISO 14001 certified.

MCV offers multilayer chip antennas, patch antennas, and antenna assembly for Bluetooth, Global Positioning System (GPS), and Wireless LAN (WLAN) applications.

Multilayer chip antennas are designed for automatic mounting and adjustment-free assembly of wireless equipment. Rectangular microstrip design patch antennas have excellent stability and sensitivity through the use of high-performance, proprietary dielectric materials.

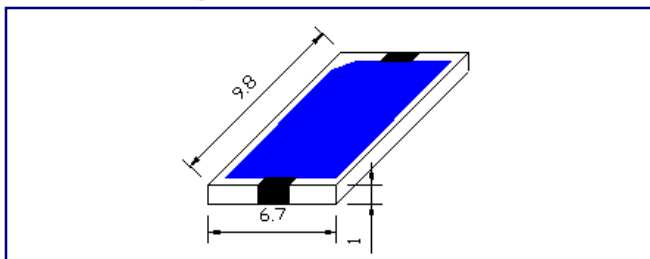
MCV's ceramic antennas provide solutions for compact size, low cost and high performance requirements. MCV's close control in the areas of dimensional accuracy, dielectric constant and temperature stability insures reliable performance and sensitivity.

- **LOW COST**
- **HIGH PERFORMANCE**
- **FAST TURNAROUND**
- **TECHNICAL SUPPORT**

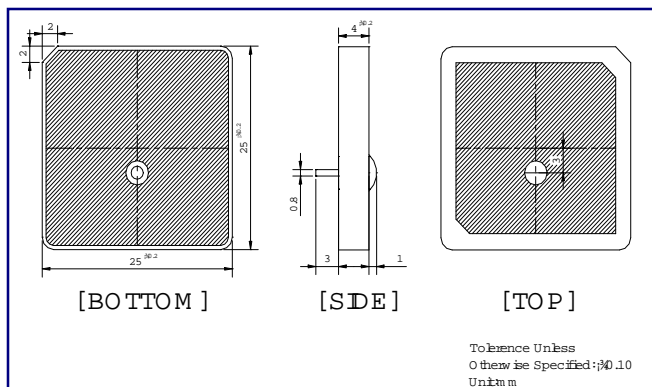
Ceramics Antennas

DIMENSIONS

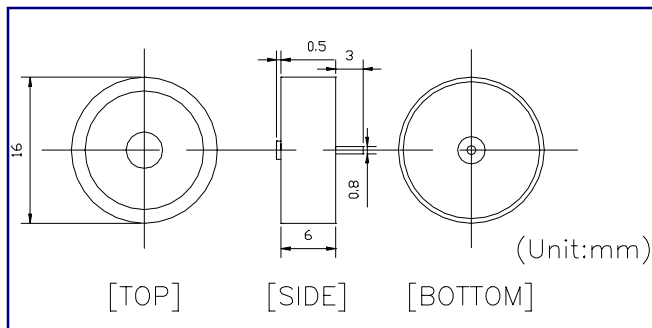
Bluetooth Chip Antenna



GPS Patch Antenna

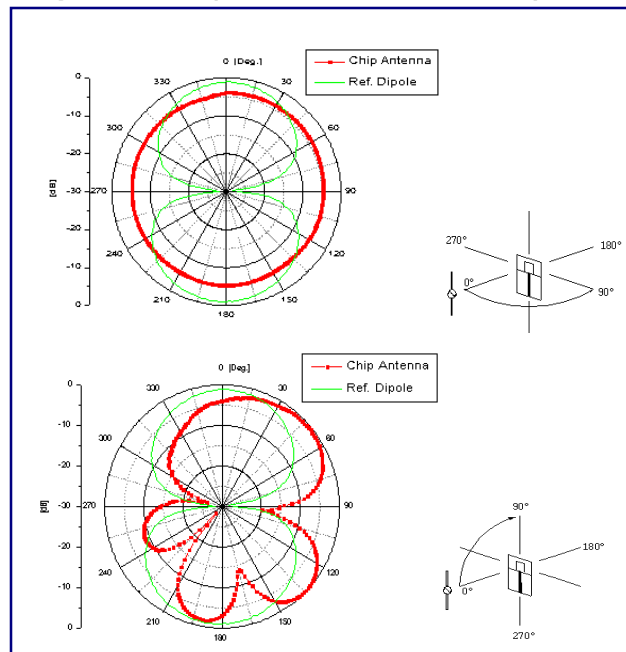


WLAN Patch Antenna

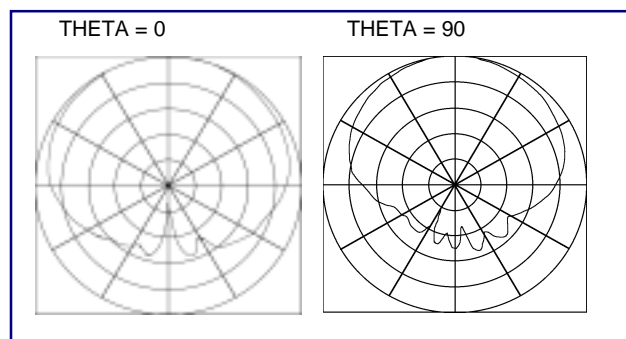


TYPICAL RADIATION PATTERN

Chip Antenna (measured at 2442 MHz)



Patch Antenna (Measured at 1575 MHz)



ORDERING INFORMATION

MA

**MCV
Antenna**

ST

Type

BC = Bluetooth Chip
ST = Standard Pin
SP = Special Pin

1575

Frequency

Unit: MHz

L25

Dimension

Unit:mm
L = Square (L25 = 25x25)
LW = Rectangular (LW46 = 4x6)
D = Disc (D16 = 16 dia.)



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