

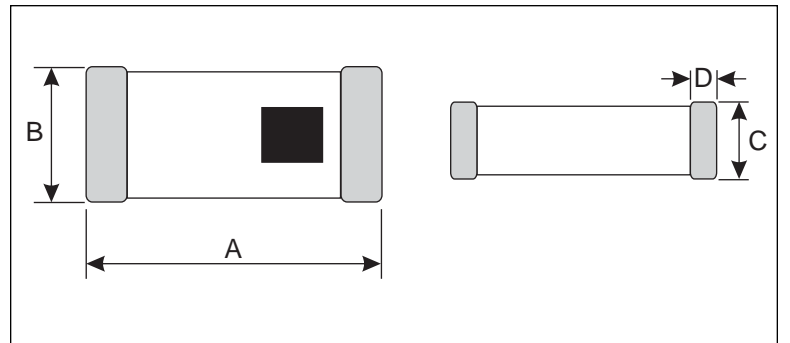
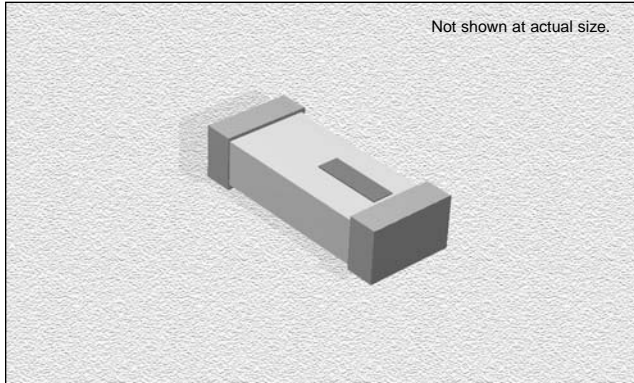
## CTMCA5020 Series

### SPECIFICATIONS

Part Number	Frequency Range (MHz)	Peak Gain (XZ-V)	Average Gain (XZ-V)	Return Loss	Impedance ( $\Omega$ )
CTMCA5020-2R4	2400~2500	0 dBi typ.	-1 dBi typ.	9.5 dB min.	50

### PHYSICAL DIMENSIONS

Size	A	B	C	D
mm	5.00±0.20	2.00±0.20	1.10±0.20	0.5±0.30
inches	0.197±0.008	0.079±0.008	0.043±0.008	0.020±0.012



### CHARACTERISTICS

**Description:** Multi-layer Chip Antenna

**Features:** Monolithic SMD type. Wide bandwidth

**Applications:** WLAN, Home RF, Bluetooth Modules, etc.

**Operating Temperature:** -40°C to +85°C

**Input Power:** 3 Watts Max.

**Packaging:** Tape & Reel

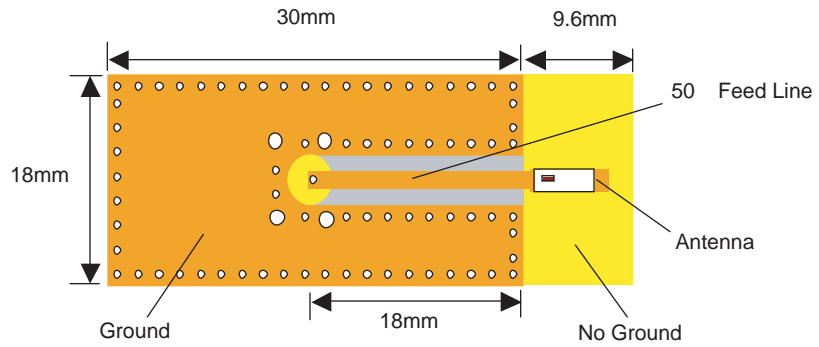
**Additional Information:** Additional electrical & physical information available upon request

**Samples available. See website for ordering information.**

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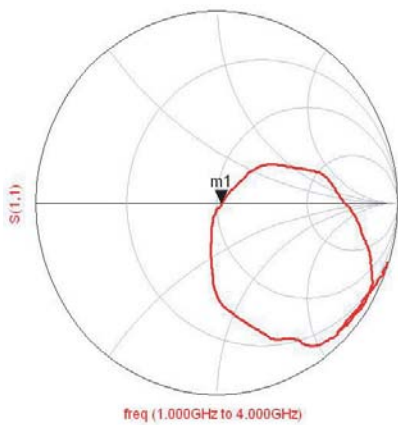
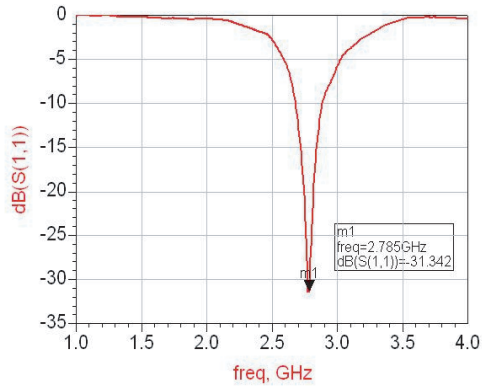
### Typical Electrical Characteristics (T=25°C)

**Test Board:**

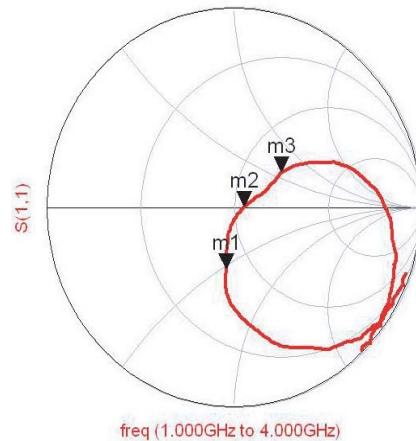
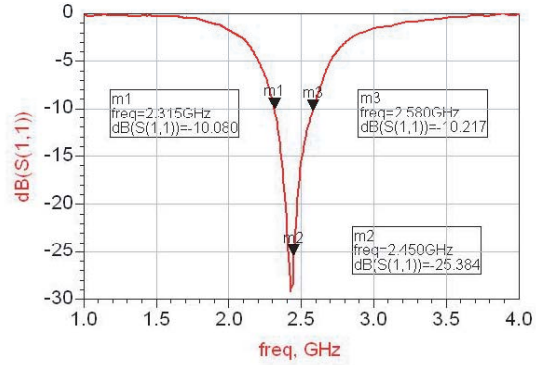


**Return Loss**

a) Without Matching Circuits

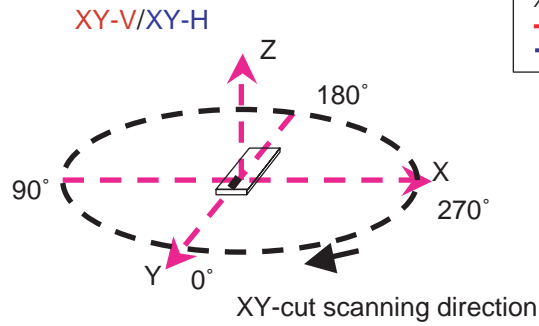


b) With Matching Circuits

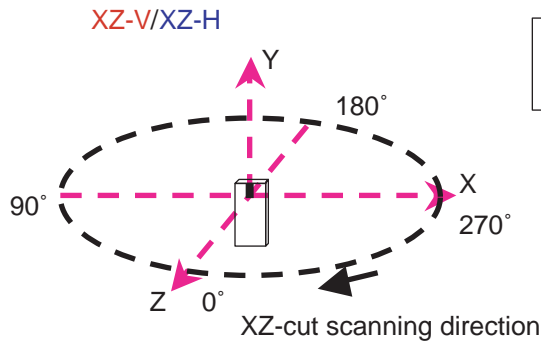
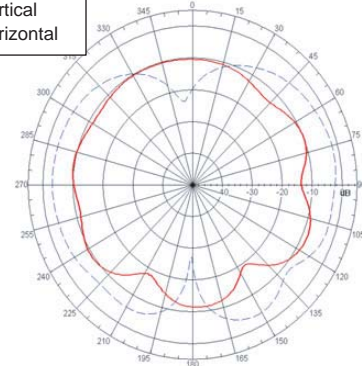


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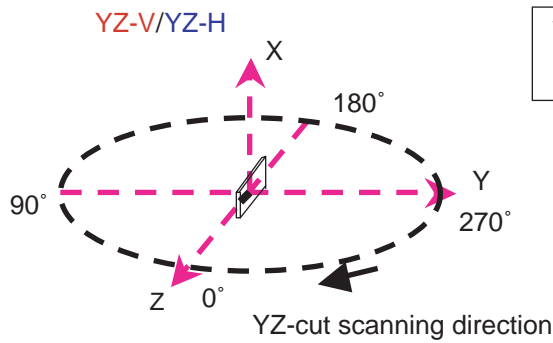
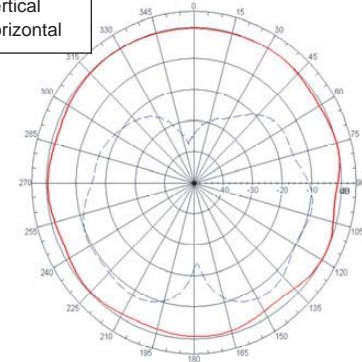
### Typical Radiation Patterns



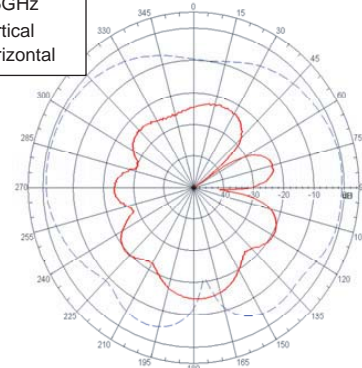
XY cut @2.45GHz  
 — Vertical  
 ..... Horizontal



XZ cut @2.45GHz  
 — Vertical  
 ..... Horizontal



YZ cut @2.45GHz  
 — Vertical  
 ..... Horizontal



02.07.05