Preliminary

"High Frequency Ceramic Solutions"

783 MHz Antenna

P/N 0783AT43A0008

Detail Specification: 10/01/09

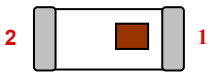
General Specifications

Part Number	0783AT43A0008
Frequency Range	779 - 787 MHz
Peak Gain	-2.0 dBi typ. (XZ-total)
Average Gain	-5.0 dBi typ. (XZ-total)
Return Loss	9.5 dB min.
Impedance	50 Ω
Input Power	2W max.

Operating Temperature	-40 to +85°C
Storage Temperature Range	+5 ~ +35 °C, Humidity 45~75%RH, 12 mos. max
Reel Quanity	1,000

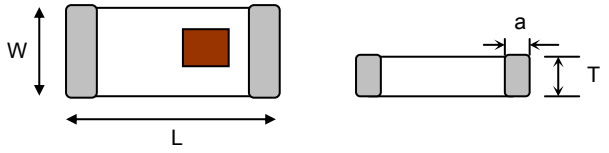
No.	Function
1	Feeding Point
2	NC

Terminal Configuration



Mechanical Dimensions

	In	mm
L	0.276 ± 0.008	7.00 ± 0.20
W	0.079 ± 0.008	2.00 ± 0.20
T	0.031 +.004/-.008	0.80 +0.1/-0.2
a	0.020 ± 0.012	0.50 ± 0.30



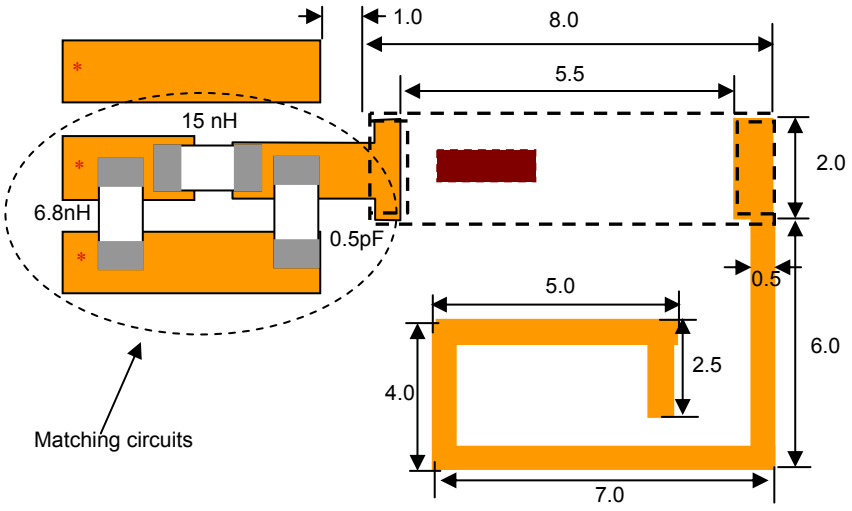
Mounting Considerations

Mount these devices with brown mark facing up. Units: mm

* Line width should be designed to provide 50 Ω impedance matching characteristics.

Matching circuit and component values will be different, depending on PCB layout

With Matching Circuit



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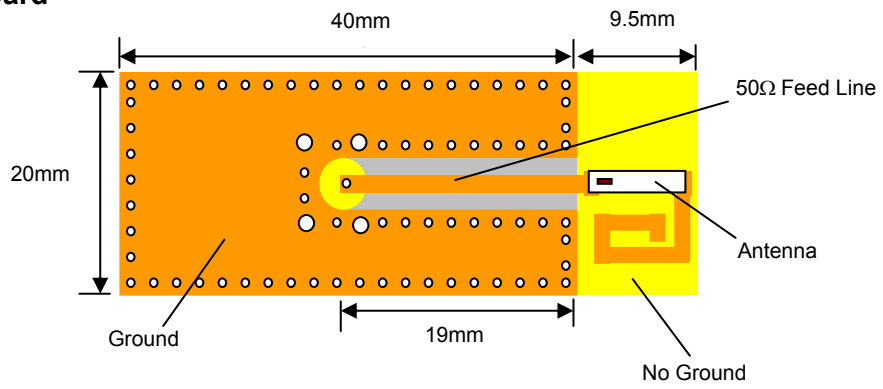
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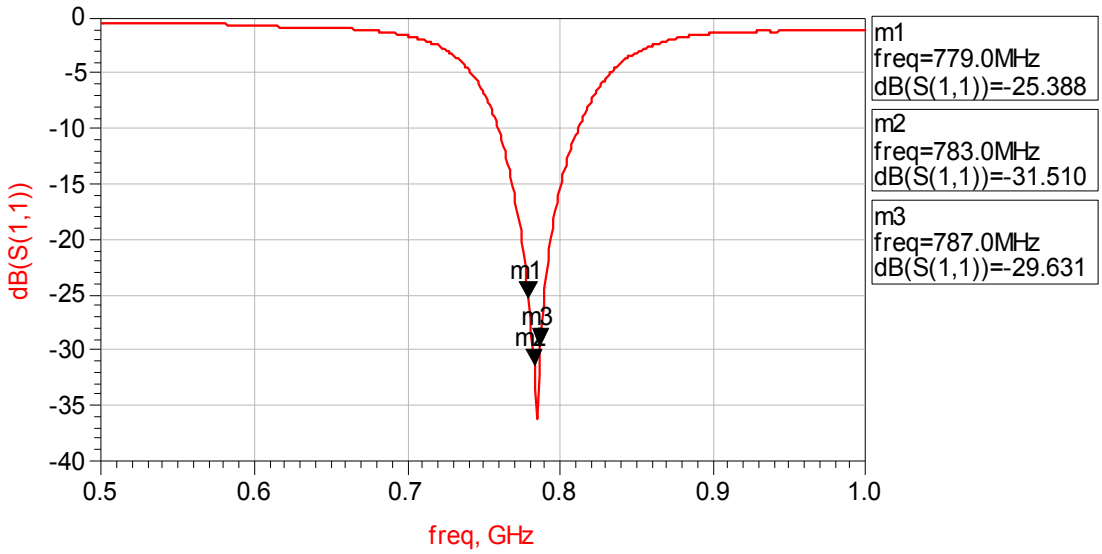
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Mounting Considerations

Test Board



Return Loss (with matching)



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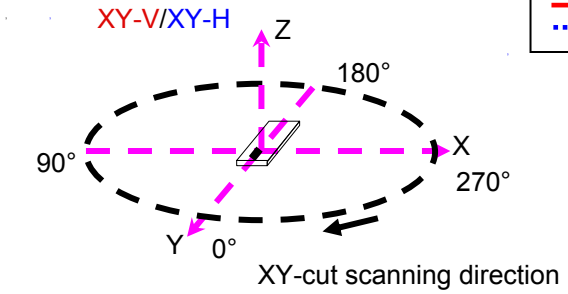
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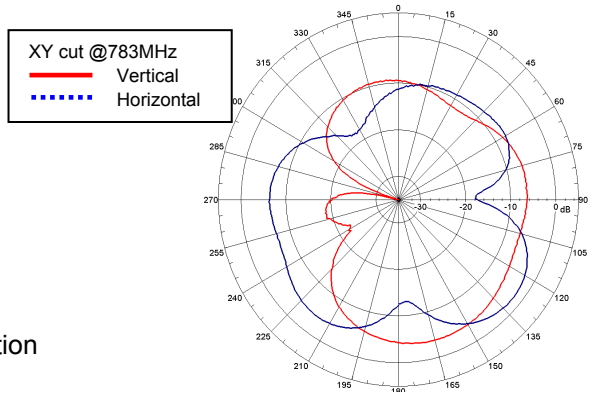
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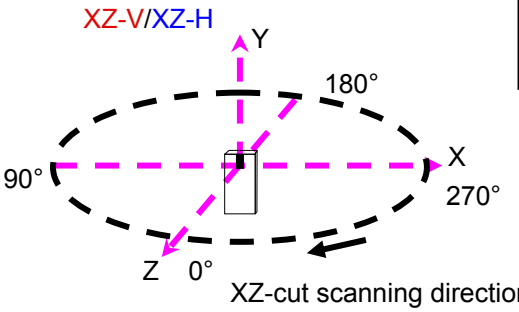
Detail Specification: 10/01/09

Typical Radiation Patterns

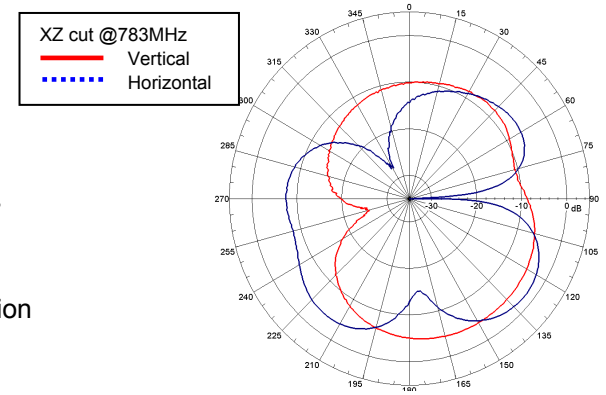


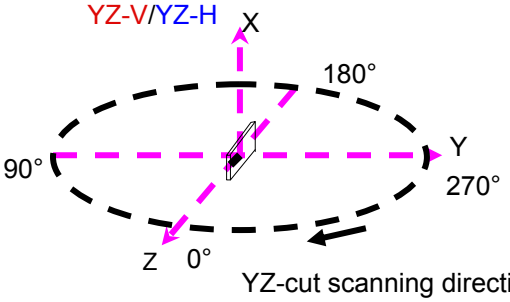
XY-cut scanning direction



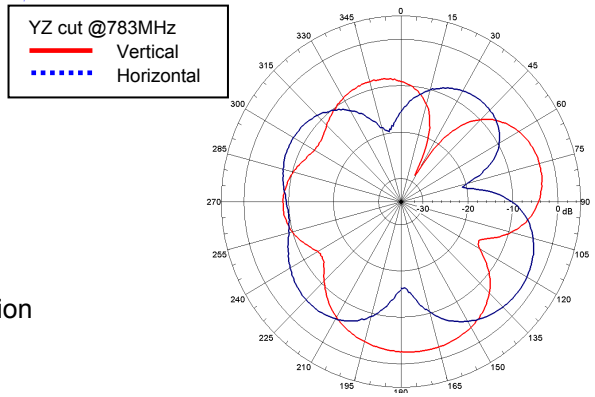


XZ-cut scanning direction





YZ-cut scanning direction



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