



Perseus Tech. International Corp.

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The 2.45 / 5 ~ 6 GHz Dual-Band Chip Antenna (DB001)

The Bluetooth and IEEE-802.11 facility is one of the major wireless applications in the near future. Both can be applied in many places, such as WLAN, cell-phone, IA product, PDA, etc. to provide data and voice transmission in short distance at 10 meters (which can be upgraded to 100 meters.).

The 2.45/5~6 GHz dual-band antenna and module by the *Perseus Tech. Int'l Corp.* is especially designed for Bluetooth/IEEE-802.11a,b,g facility application. The small-embedded chip antenna provides the most reliable, ease to use and adjustment-free antenna technology to solve the problem during assembly and implementation by developer.

The 2.45/5~6 GHz dual-band antenna can be provided either only antenna itself or mounted on the small PCB with connector as customer requirement. The details of antenna specification are as follows:

Part NO. : DB001	
ITEM	SPECIFICATION
Size	10.5 x 3.0 x 2.0 mm
Central frequency	2.45 and 5.~ 6 GHz
Feed Point Impedance	50 Ω
Peak gain	2 dBi
Normal gain	1 dBi
Power handling	3W (max.)
VSWR	2.0 (Max.)
Weight	0.16 g

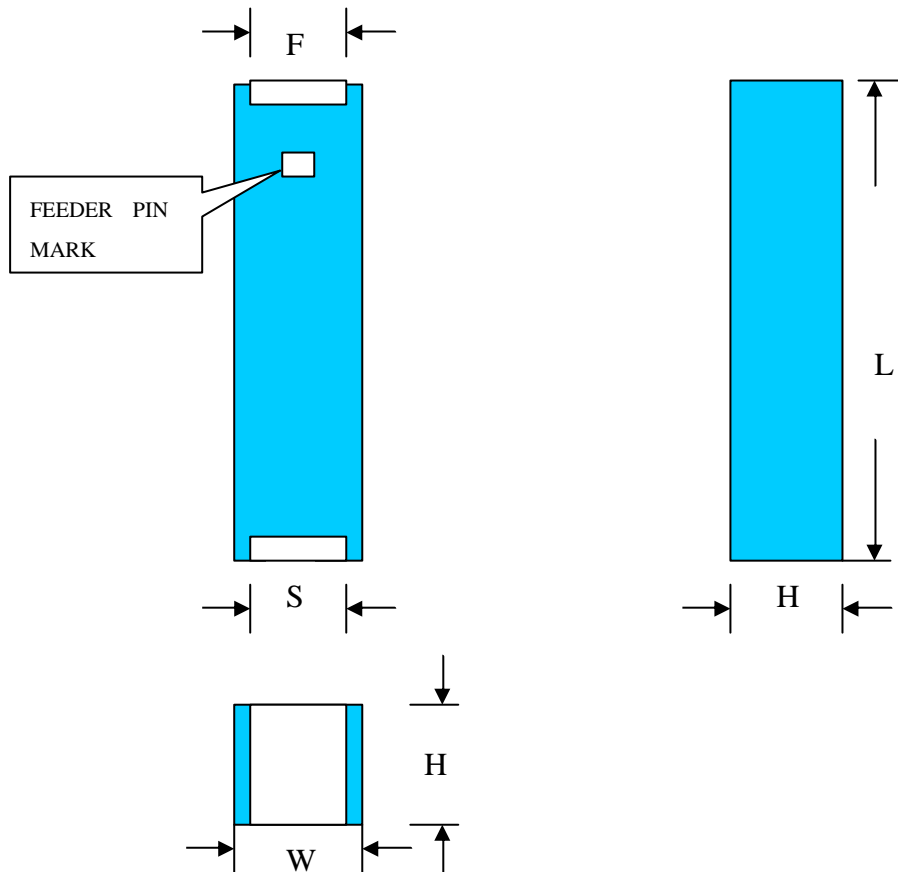


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Mechanical Specification of Dual-Band Chip Antenna

(DB001)



ITEM	DIMENSION	PORT
L	10.5mm	-
W	3.0 mm	-
H	2.0 mm	-
F	----	Feed
S	----	Solder Land



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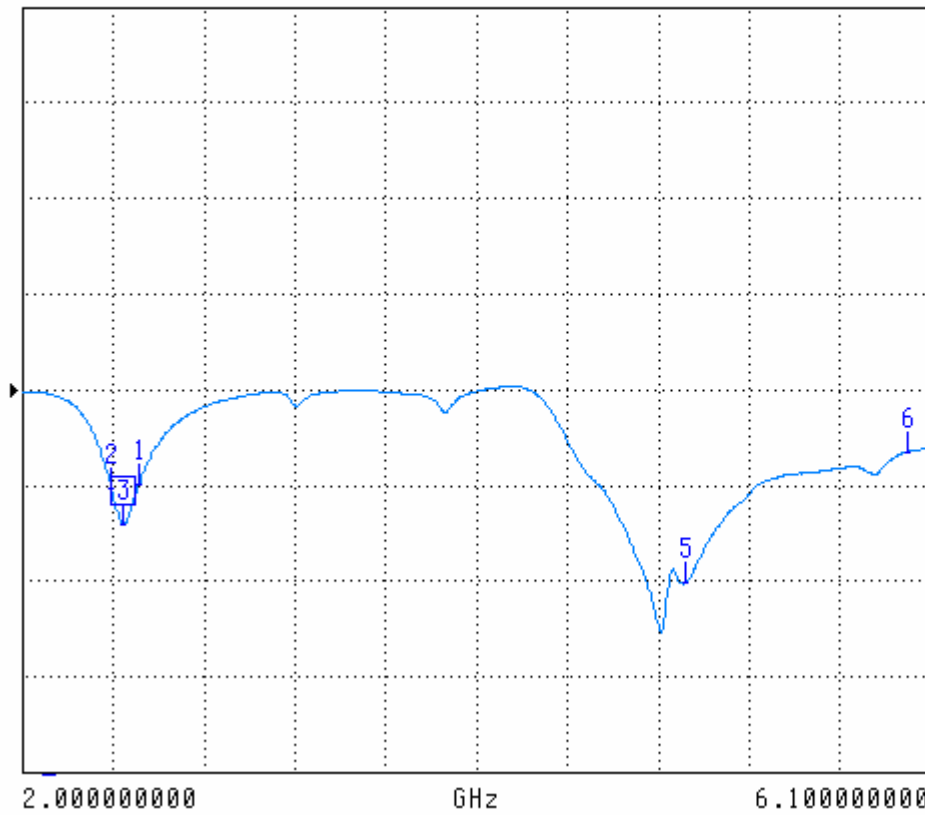
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S22 REVERSE REFLECTION

LOG MAGNITUDE

REF=0.000 dB

10.000 dB/DIV



CH 4 - S22
REFERENCE PLANE
0.0000 mm

MARKER 3
2.461250000 GHz
-14.052 dB

MARKER TO MAX
▶ MARKER TO MIN

- 1 2.527875000 GHz
-10.044 dB
- 2 2.404875000 GHz
-10.471 dB
- 5 4.998125000 GHz
-20.178 dB
- 6 5.997500000 GHz
-6.553 dB

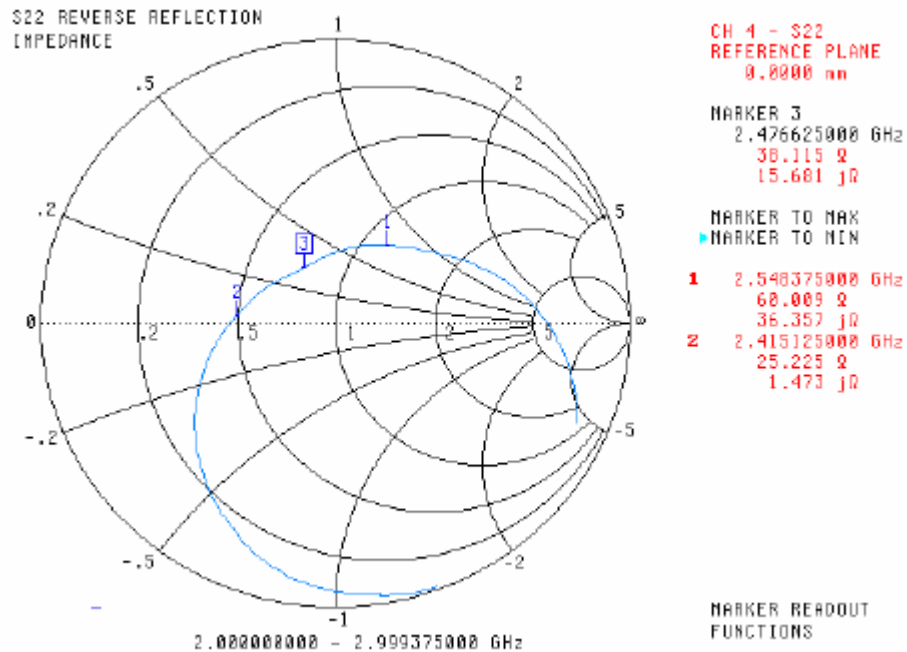
MARKER READOUT
FUNCTIONS



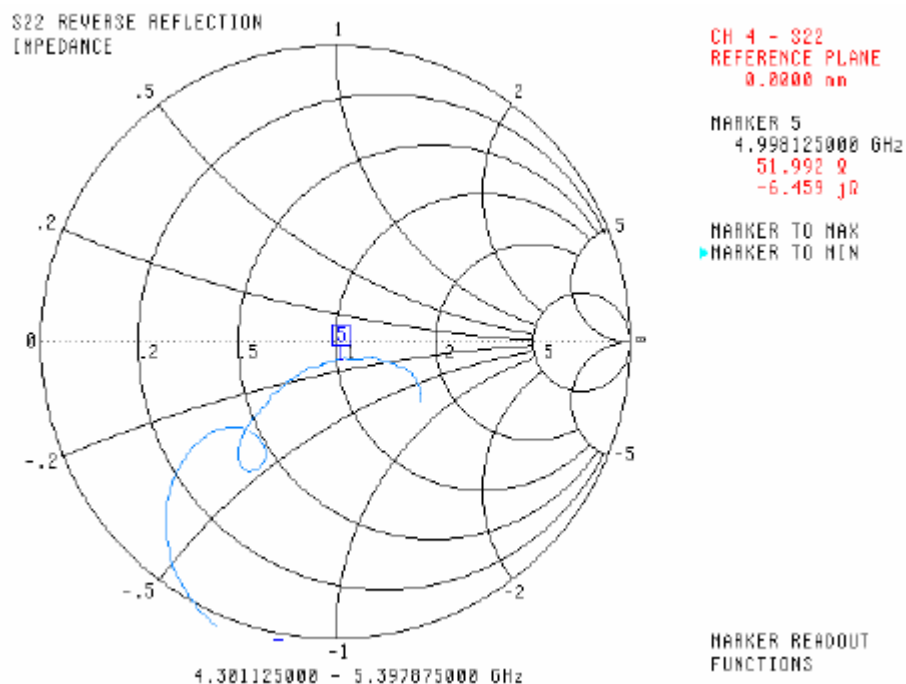
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2.4GHz Smith Chart (DB001)



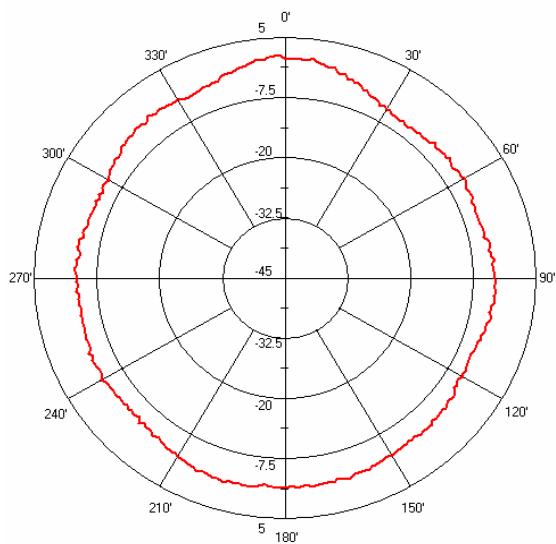
5.2GHz Smith Chart (DB001)



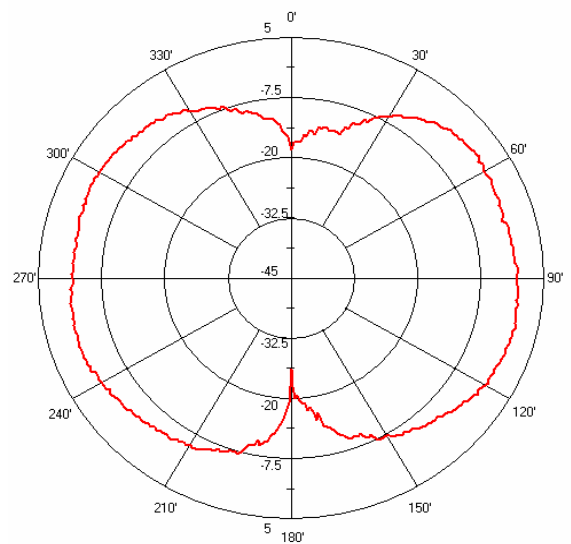


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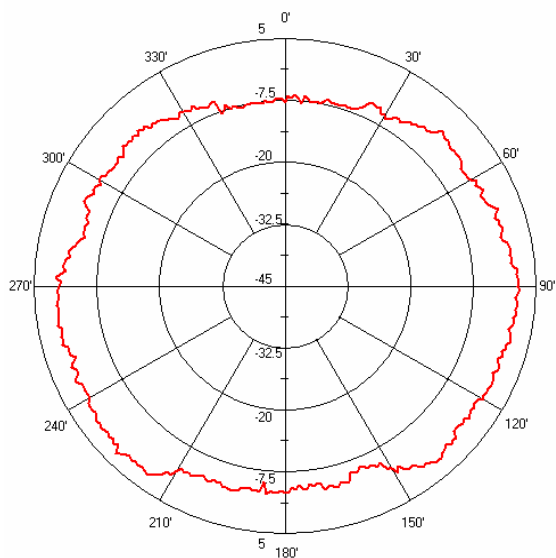
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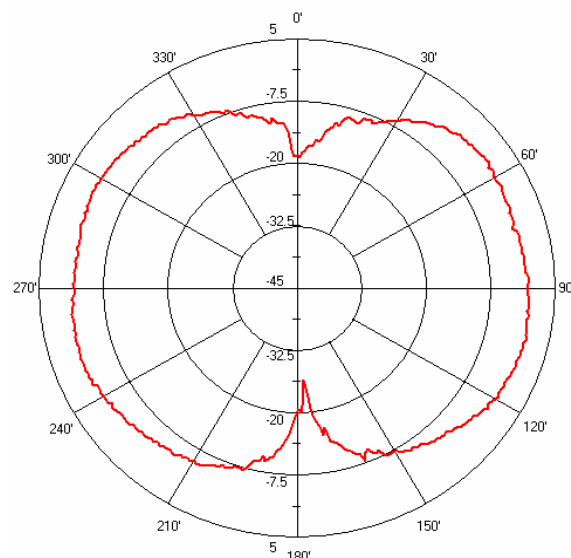
2.45 GHz H-Plane



2.45 GHz E-Plane



5.2 GHz H-Plane



5.2 GHz E-Plane