Reference

No. TRJC-1F12

June. 28. 2001

Technical Report

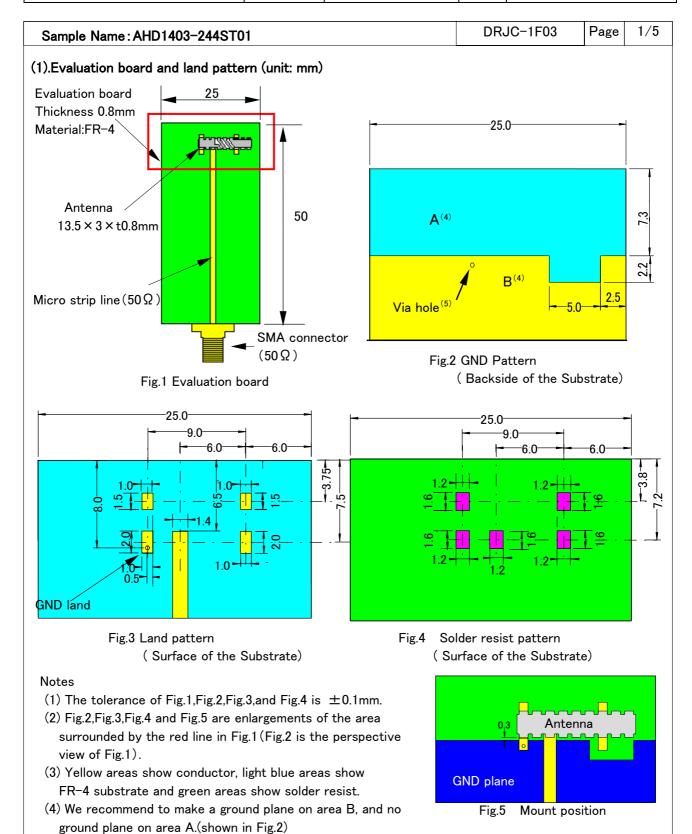
<u>Product Name : Surface Mountable Dielectric Chip Antenna</u>

Part Number : AHD1403-244ST01

Subject: Input and radiation properties (DRJC-1F03)

Mitsubishi Corporation

I	nput and radiation properties	Approval	No	DRJC-1F03
1	AHD1403-244ST01	Drawn	Date	June .28. 2001



- (5) Via hole $(\phi 0.4 \text{mm})$ joins GND land and ground plane.
- (6) We recommend to make solder resist on the surface of the substrate but no solder resist on the pink areas shown in Fig.4.
- (7) We recommend to solder Antenna 0.3mm away from the edge of the ground plane. (shown in Fig.5)

(2) Dimension (Unit:mm)

①: In/Out Terminal

2 : GND Terminal

③ : Fixing Electrode (Should be connected with the floating pad)

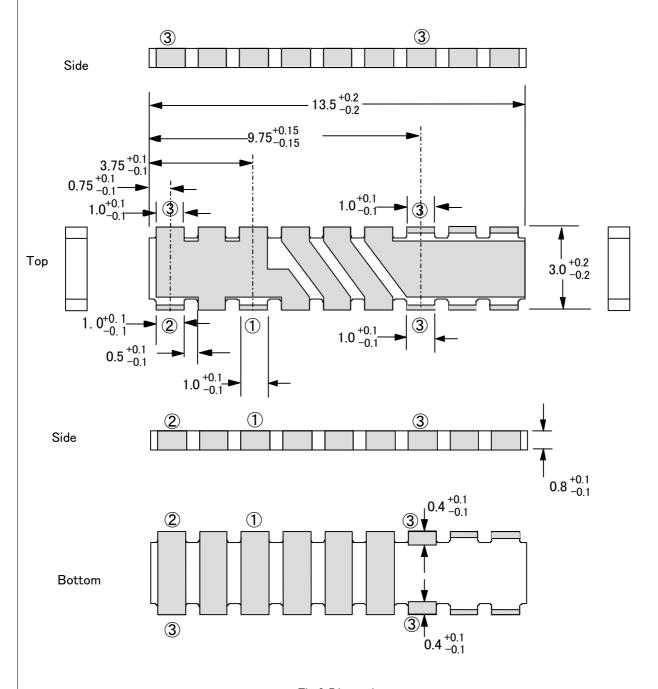
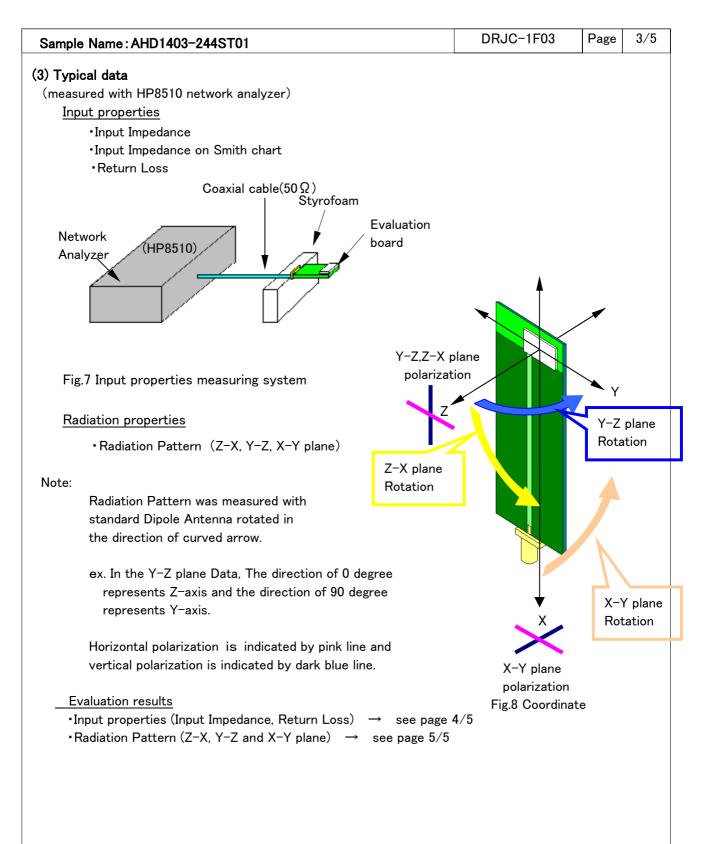
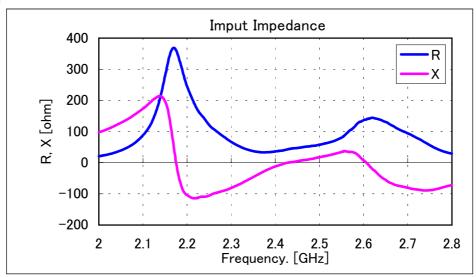


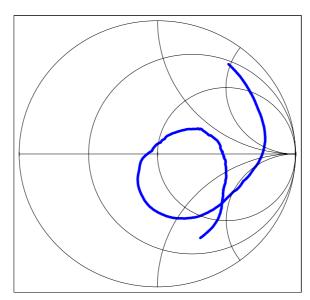
Fig.6 Dimension



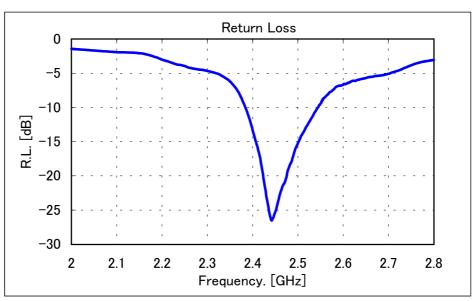
1. Input Impedance



2.Input Impedance (on Smith Chart)



3. Return Loss



frequency at return loss minimum(f₀):2442MHz

Band width (VSWR<3) 283 [MHz] Band width (VSWR<2) 158 [MHz]

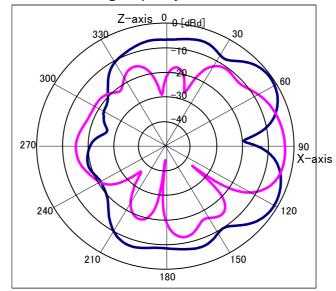
*These properties are not guaranteed properties but typical properties.

Return loss minimum=-26.5dB、R=46.1 Ω 、X=2.2 Ω (at f₀) f(lower)2348MHz、f(upper)2631MHz(VSWR<3)、f(lower)2385MHz、f(upper)2543MHz(VSWR<2)

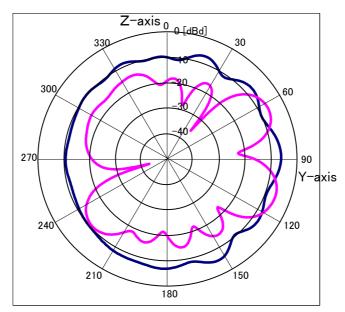
4.Radiation Pattern

Measuring frequency: 2442MHz

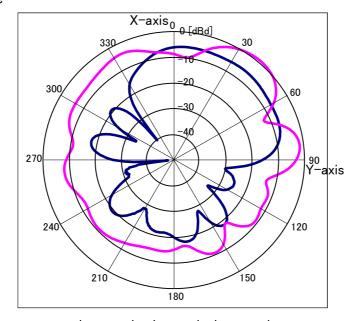
ZX plane



YZ plane



XY plane



^{*}These properties are not guaranteed properties but typical properties.