HMD973B 2.4GHz Balun for Bluetooth

Compact, Low profile

Applications

Impedance matching for balanced & unbalanced circuit

Specifications

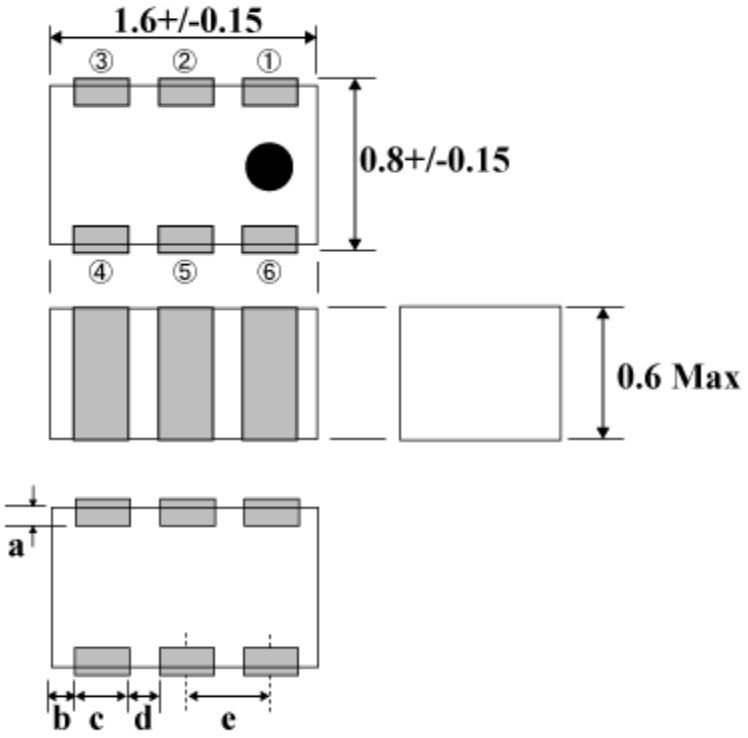
HMD973B	
Unbalance Port Impedance	50 ohm Nominal
Balance Port Impedance	Conjugate match to BFR6300-BGA of TI
Fc	2441MHz Nominal
Pass Band	2402-2480MHz
Insertion Loss (at 25 Deg.C)	1.5 dB max (typ 1.04 dB)
Ripple	1.0 dB max (typ 0.17 dB)
Unbalance Port V.S.W.R in BW	2.0 max (typ 1.12)
Balance Port V.S.W.R in BW	2.0 max (typ 1.18)
Amplitude Balance	2.0 max (typ 1.26 dB)
Phase Differential	18010 Deg.(typ 175.6 Deg.)

Order Unit

3000pcs/Reel

Dimensions

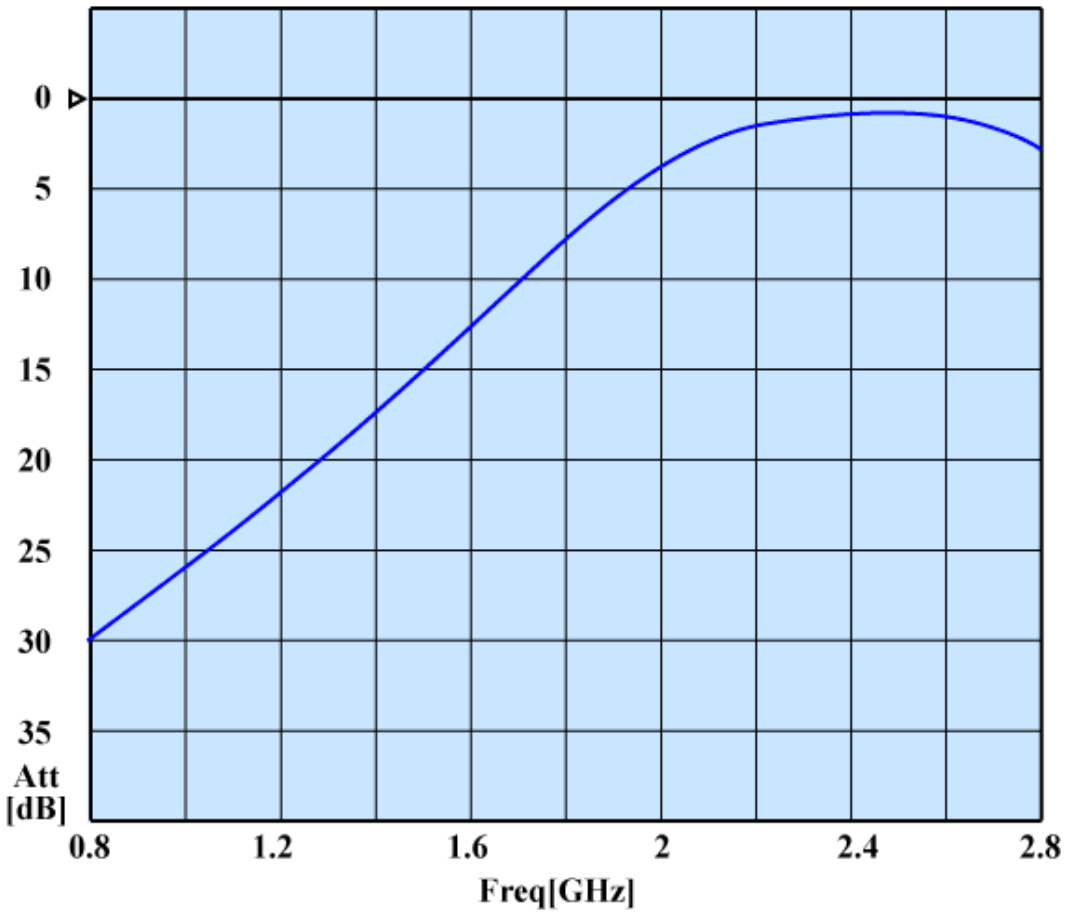
Dimension(Unit : mm)



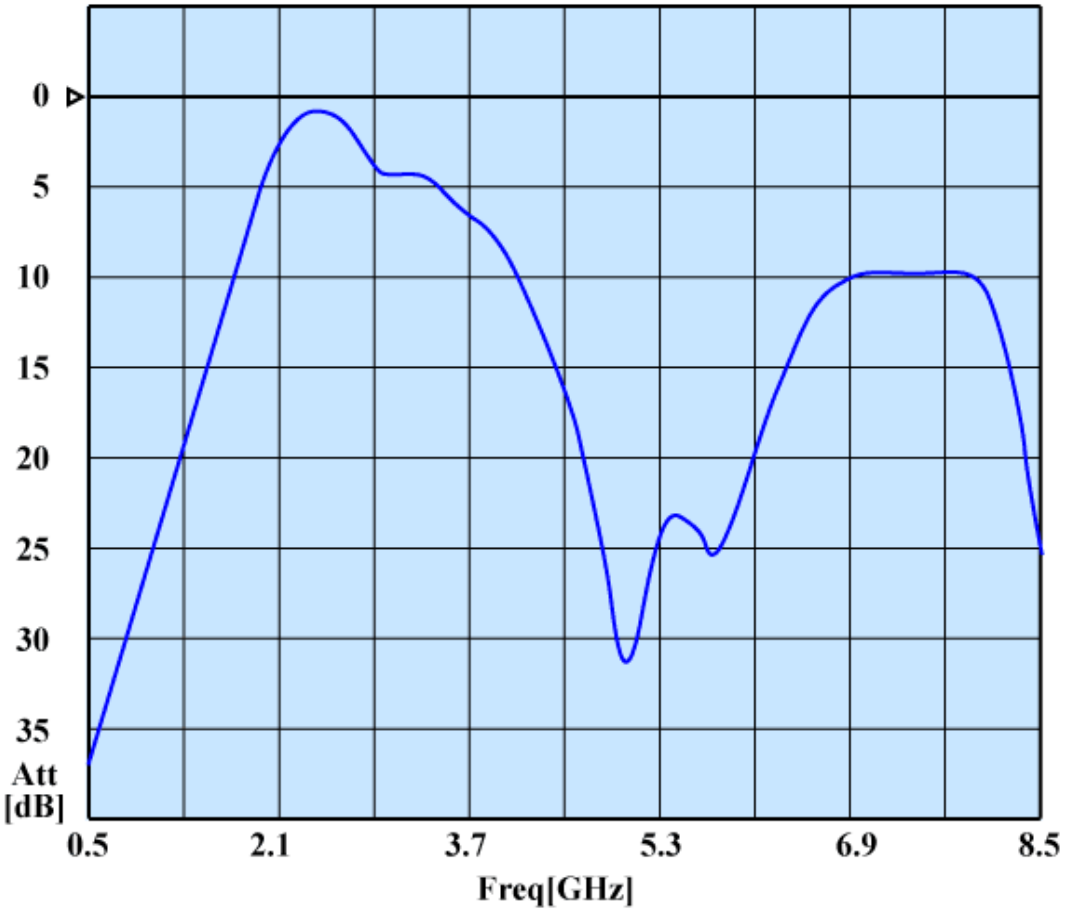
Terminal	
①	Unbalance
②	DC/GND
③	Balance
④	Balance
⑤	GND
⑥	NC

Terminal Dimensions	
a	0.15 Typ.
b	0.15 +/- 0.13
c	0.30 +/- 0.06
d	0.20 +/- 0.06
e	0.50 +/- 0.06

Frequency Characteristics Pass Band

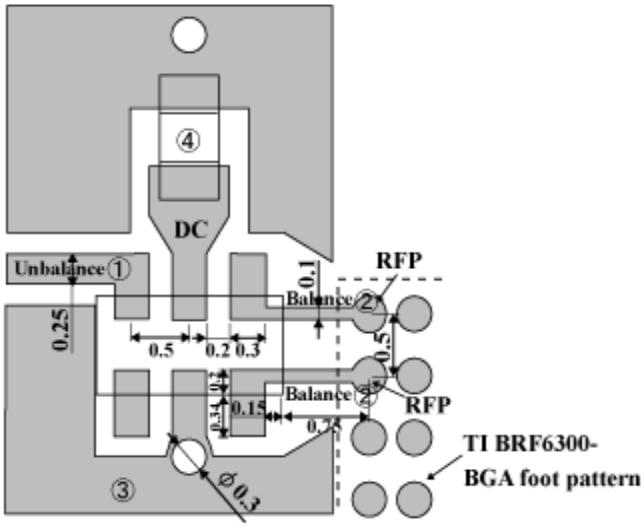


Frequency Characteristics Broad Band



Land Pattern

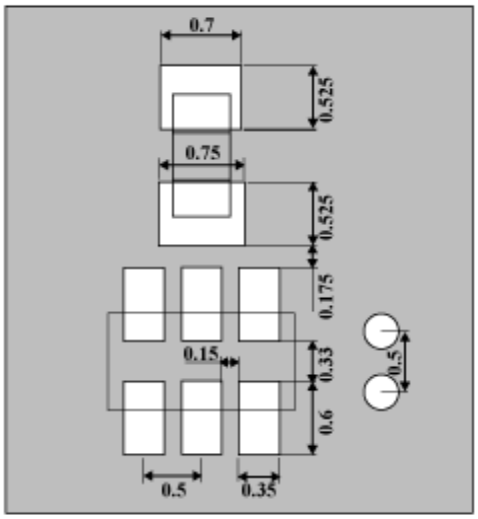
Land Pattern(Unit:mm)



① 50 ohm Impedance Lines
② Assuming tracing inductance is 0.4-0.5nH
③ Ground Plane
④ Decoupling Capacitor

Resist Pattern

Resist Pattern(Unit:mm)



PCB Cross Section

