

HMD971U 2.4GHz Balun for Bluetooth

Compact, Low profile

Applications

Impedance matching for balanced & unbalanced circuit

Specifications

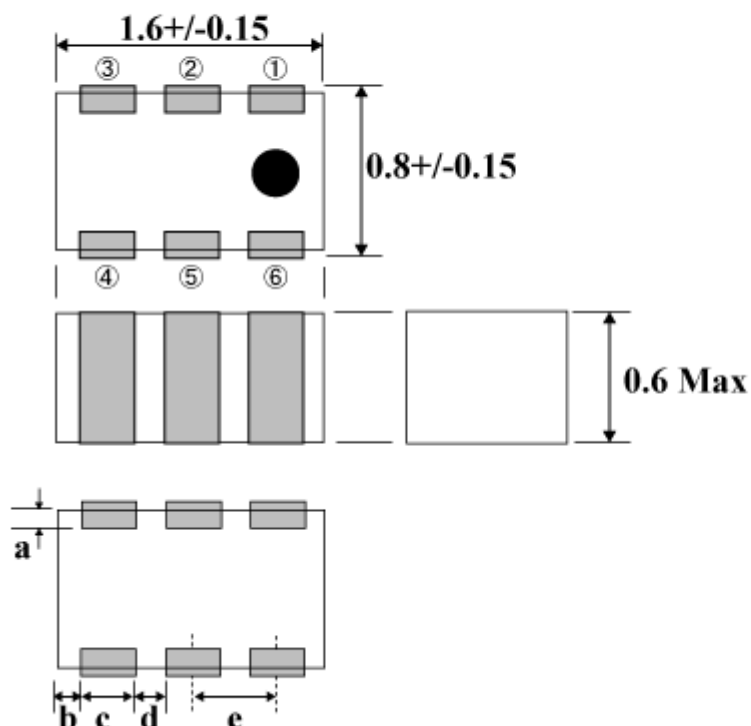
HMD971U	
Unbalance Port Impedance	50 ohm Nominal
Balance Port Impedance	Conjugate match to BC03 series CSR
Fc	2441MHz Nominal
Pass Band	2402-2480MHz
Insertion Loss (at 25 Deg.C)	1.5 dB max (typ 0.83 dB)
Insertion Loss (at -40 up to 85 Deg.C)	1.8 dB max
Ripple	1.0 dB max (typ 0.02 dB)
Unbalance Port V.S.W.R in BW	2.0 max (typ 1.15)
Balance Port V.S.W.R on BW	2.0 max (typ 1.24)
Amplitude Balance (at 25 Deg.C)	1.0 max (typ 0.19)
Amplitude Balance (at -40 up to 85 Deg.C)	1.1 max
Phase Differential(at 25 Deg.C)	180+/-10 Deg.(typ 176.17 Deg.)
Phase Differential (at -40 up to 85 Deg.C)	180+/-12 Deg.

Order Unit

3000pcs/Reel

Dimensions

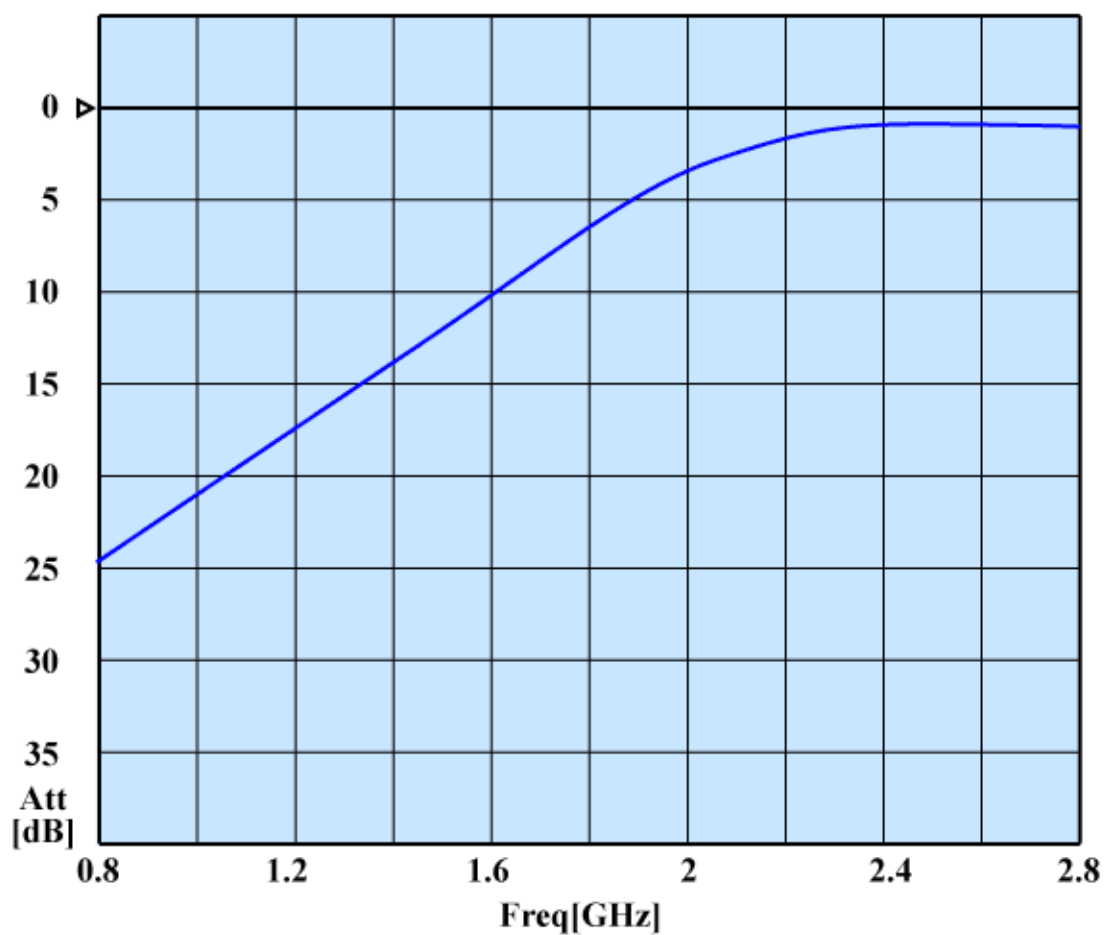
Dimension(Unit : mm)



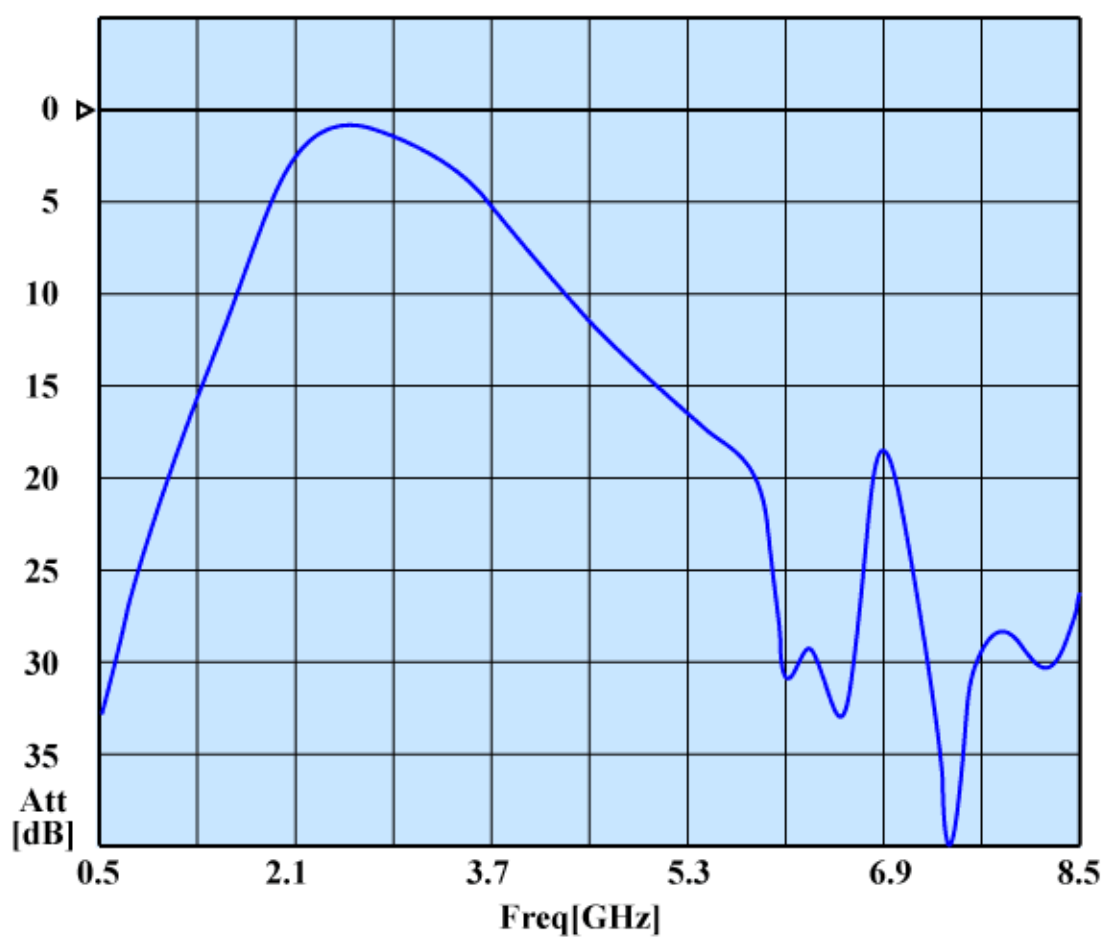
Terminal	
①	Unbalance
②	DC/GND
③	Balance
④	Balance
⑤	GND
⑥	NC

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

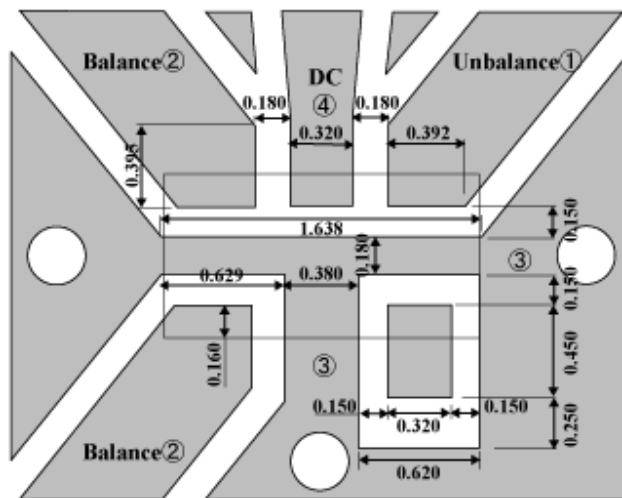


Frequency Characteristics Broad Band



Land Pattern

Land Pattern(Unit:mm)



- ① 50 ohm Impedance Lines
- ② 50 ohm Impedance Lines
- ③ Ground Plane
- ④ DC feed line

Resist Pattern

Resist Pattern(Unit:mm)

