

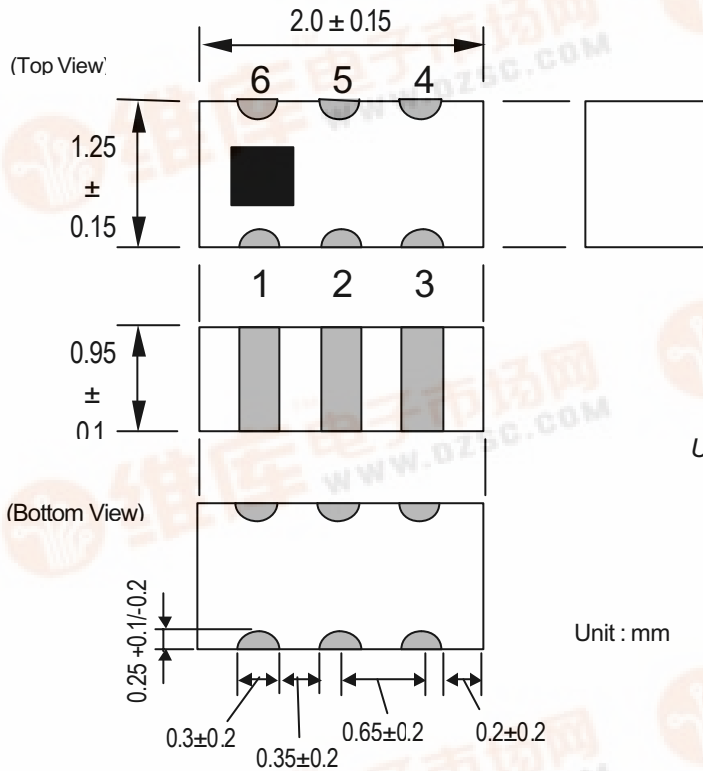
# PRELIMINARY

Oct. / 2002 Ver.2  
TDK Corporation

## MULTILAYER BALUN SPECIFICATION

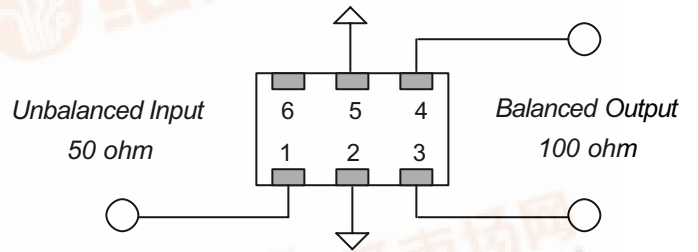
PIN: **HHM1570B1** For W-LAN

### [MECHANICAL DIMENSIONS]



### Pin configuration

- 1 Unbalanced Port
- 2 GND or DC feed + RF GND
- 3 Balanced Port
- 4 Balanced Port
- 5 GND
- 6 N.C.



### [ELECTRICAL CHARACTERISTICS]

Unbalanced Impedance	50 ohm
Balanced Impedance	100ohm
Frequency Range	4900-5950MHz
Unbalanced Port Return Loss	10 dB Min.
Phase Imbalance at Balanced Port	$180 \pm 10$ deg.
Amplitude Imbalance at Balanced Port	$0 \pm 2.0$ dB
Insertion Loss	1.0 Max.

### [TEMPERATURE RANGE]

Storage Temperature	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Operating Temperature	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

### [STANDARD PACKAGING QUANTITIES]

2000pcs./reel



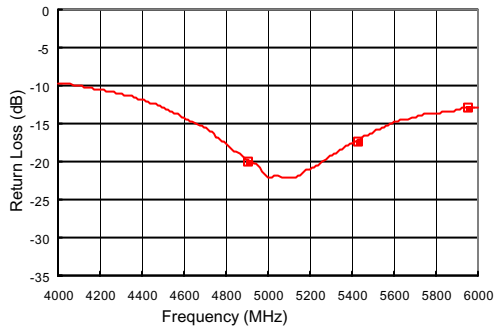
# PRELIMINARY

## [ Frequency response ]

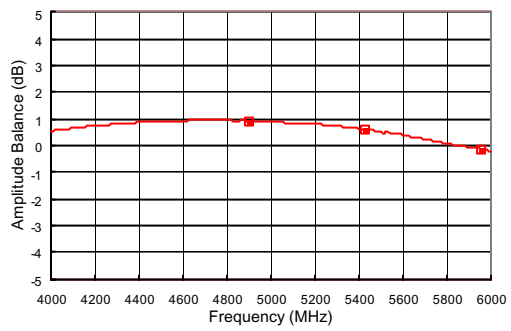
HHM1570B1 (UNBALANCE 50ohm/BALANCE 100ohm)

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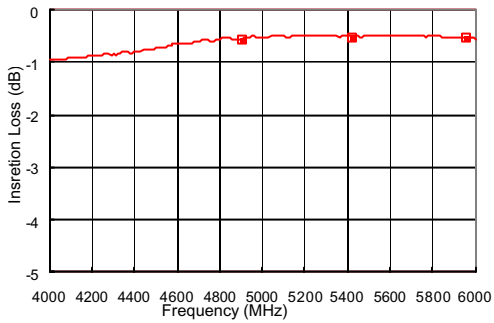
Return Loss



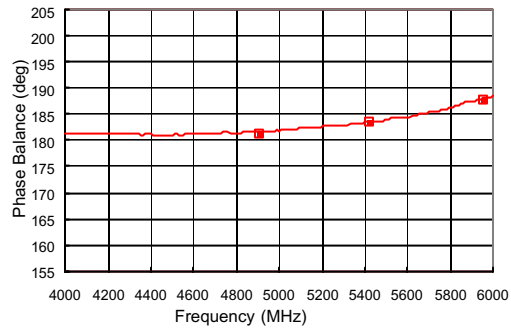
Amplitude Balance



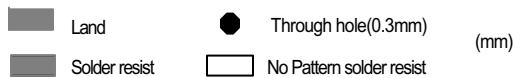
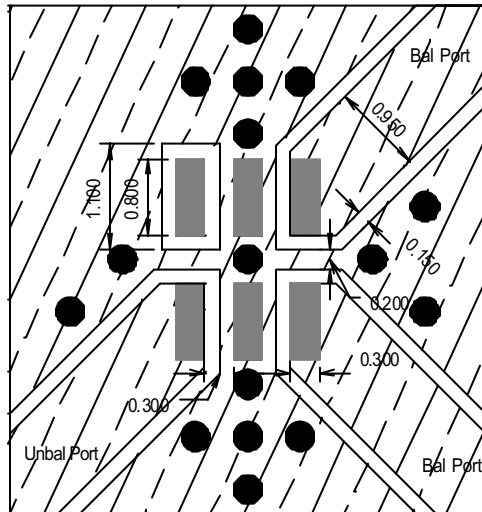
Insertion Loss



Phase Balance



## [ Recommended PCB Pattern ]



Line width be designed to match 50ohm characteristic impedance, depending on PCB material and thickness.