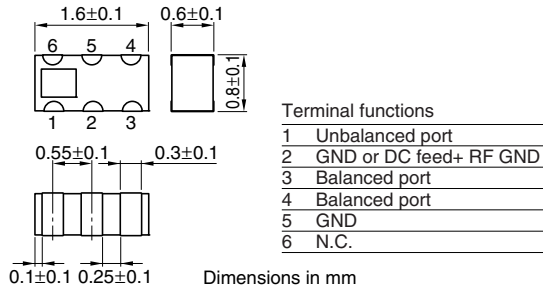


# Multilayer Chip Baluns For 5.0GHz W-LAN

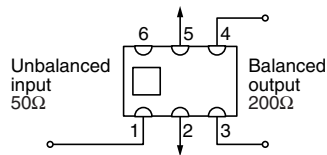
Conformity to RoHS Directive

HHM Series HHM1752A2

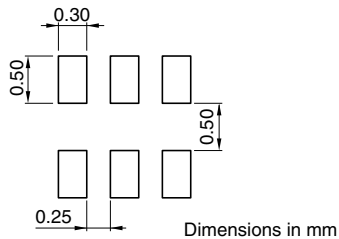
## SHAPES AND DIMENSIONS



## CIRCUIT DIAGRAM



## RECOMMENDED PC BOARD PATTERNS



## ELECTRICAL CHARACTERISTICS

|                                      |                        |
|--------------------------------------|------------------------|
| Unbalanced impedance                 | 50Ω                    |
| Balanced impedance                   | 200Ω                   |
| Frequency range                      | 4900 to 5950MHz        |
| Unbalanced port return loss          | 10dB min.              |
| Phase imbalance at balanced port     | 180±10deg.             |
| Amplitude imbalance at balanced port | 0±1.5dB                |
| Insertion loss                       | 1.2dB max.             |
| Temperature range                    | Operating -40 to +85°C |
|                                      | Storage -40 to +85°C   |
| Packaging style and quantities       | 4000pieces/reel        |

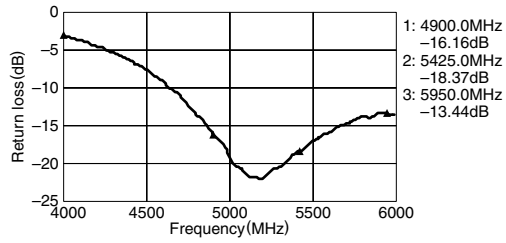
- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

- All specifications are subject to change without notice.

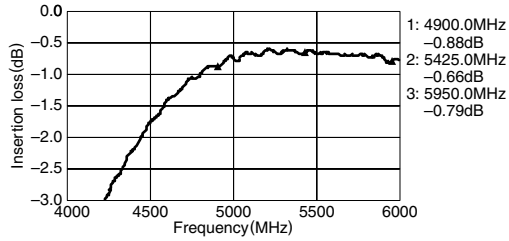
## FREQUENCY CHARACTERISTICS

Unbalance 50Ω/ Balance 200Ω

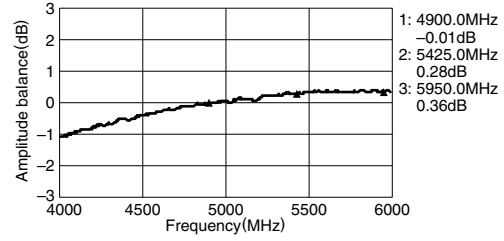
### RETURN LOSS



### INSERTION LOSS



### AMPLITUDE BALANCE



### PHASE BALANCE

