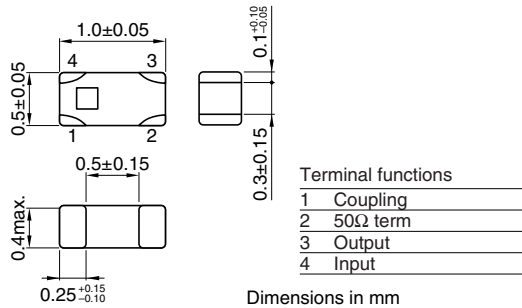


# Multilayer Chip Directional Couplers For 2.4GHz W-LAN

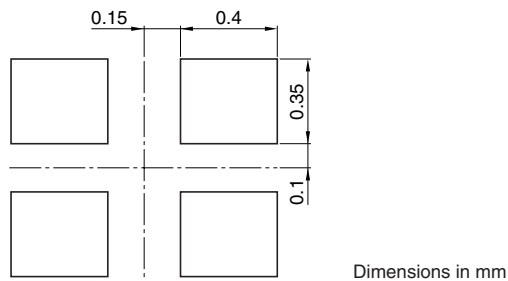
Conformity to RoHS Directive

HHM Series HHM2919A2

## SHAPES AND DIMENSIONS



## RECOMMENDED PC BOARD PATTERNS



## ELECTRICAL CHARACTERISTICS

|                   |                 |              |
|-------------------|-----------------|--------------|
| Frequency range   | 2400 to 2500MHz |              |
| Coupling factor   | 18.2±1.0dB      |              |
| Insertion loss    | 0.25dB max.*1   |              |
|                   | 0.28dB max.*2   |              |
| Isolation         | 32dB min.       |              |
| VSWR              | 1.3max.         |              |
| Temperature range | Operating       | -40 to +85°C |
|                   | Storage         | -40 to +85°C |

\*1 25°C

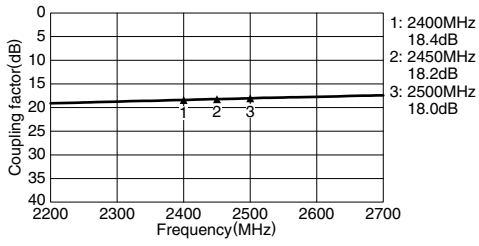
\*2 Operating temperature

• 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.

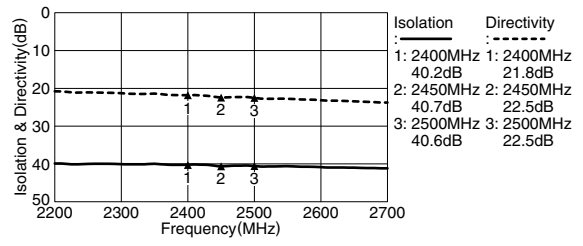
• All specifications are subject to change without notice.

### FREQUENCY CHARACTERISTICS

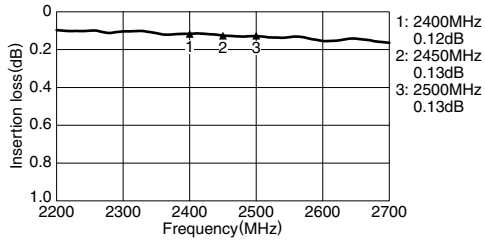
#### COUPLING



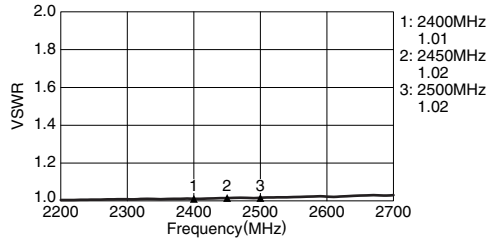
#### ISOLATION & DIRECTIVITY



#### INSERTION LOSS



#### VSWR



• All specifications are subject to change without notice.