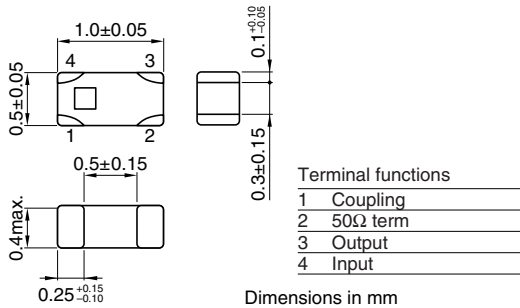


# Multilayer Chip Directional Couplers For LTE/GSM/DCS/PCS

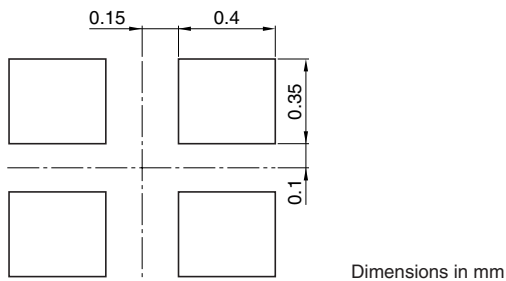
Conformity to RoHS Directive

HHM Series HHM2909C4

## SHAPES AND DIMENSIONS



## RECOMMENDED PC BOARD PATTERNS



## ELECTRICAL CHARACTERISTICS

Frequency range	777 to 787MHz	824 to 925MHz	1710 to 1785MHz	1850 to 1910MHz
Coupling factor	20.4±1.0dB	19.4±1.0dB	13.5±1.0dB	12.8±1.0dB
Insertion loss	0.25dB max.*1 0.28dB max.*2	0.25dB max.*1 0.28dB max.*2	0.50dB max.*1 0.55dB max.*2	0.55dB max.*1 0.60dB max.*2
Isolation	32dB min.	32dB min.	32dB min.	32dB min.
VSWR	1.4max.	1.4max.	1.4max.	1.4max.
Temperature range	Operating	-40 to +85°C	-40 to +85°C	-40 to +85°C
	Storage	-40 to +85°C	-40 to +85°C	-40 to +85°C

\*1 25°C

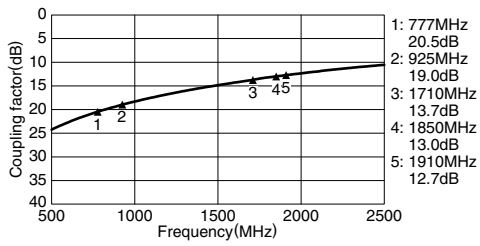
\*2 Operating temperature

• 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.

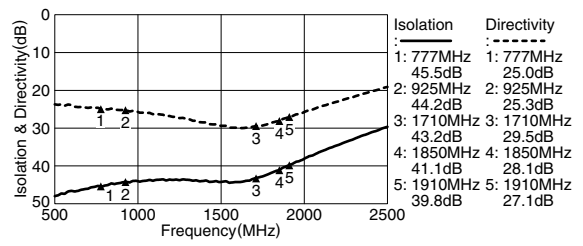
• All specifications are subject to change without notice.

### FREQUENCY CHARACTERISTICS

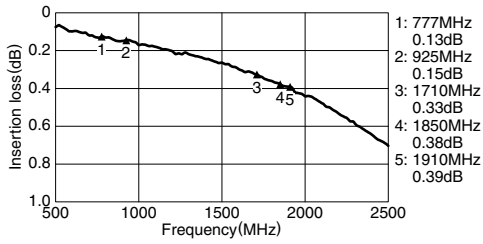
#### COUPLING



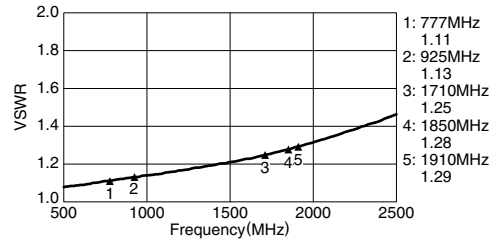
#### ISOLATION & DIRECTIVITY



#### INSERTION LOSS



#### VSWR



• All specifications are subject to change without notice.