

Multilayer Directional Couplers

For W-CDMA Tx

HHM Series

Type: **HHM2207SB1 (1.6×0.8×0.6mm)**
 HHM2218SA1 (1.6×0.8×0.6mm)
 HHM2220SA3 (1.6×0.8×0.6mm)

Issue date: December 2010

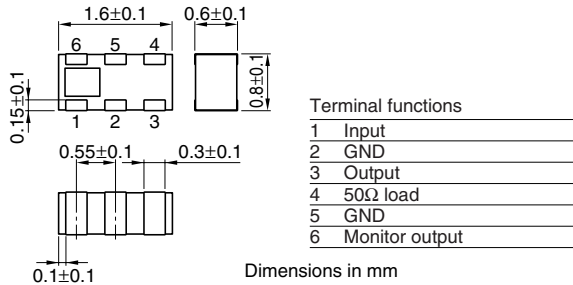
- All specifications are subject to change without notice.
 - Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
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Multilayer Chip Directional Couplers For W-CDMA/Tx

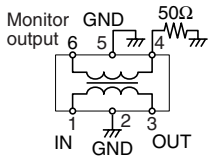
Conformity to RoHS Directive

HHM Series HHM2207SB1

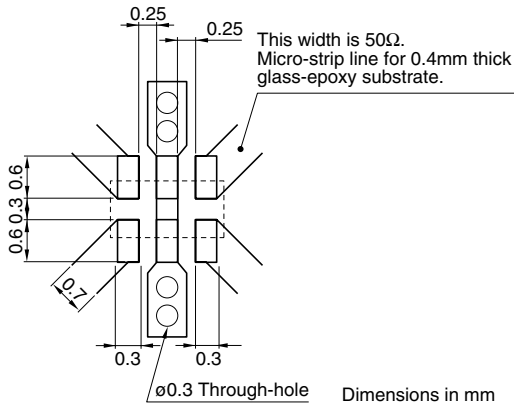
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERNS



ELECTRICAL CHARACTERISTICS

Frequency range	1920 to 1980MHz
Coupling factor	13.5±1.0dB
Insertion loss	0.30dB max.*1 0.35dB max.*2
Isolation	25dB min.
VSWR	1.4 max.
Temperature range	Operating: -40 to +85°C Storage: -40 to +85°C

*1 25°C

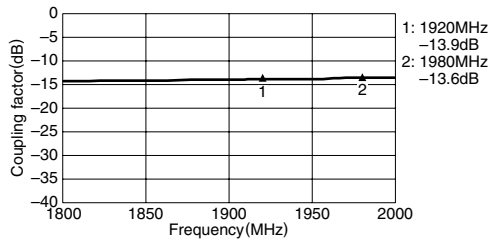
*2 Operating temperature

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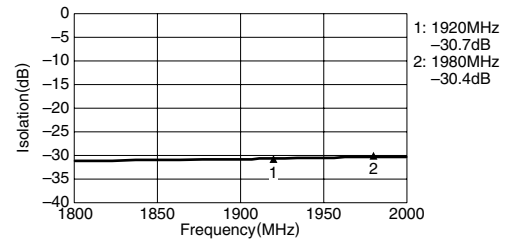
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FREQUENCY CHARACTERISTICS

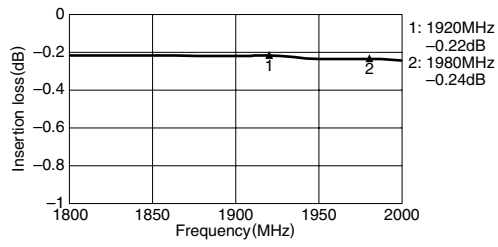
COUPLING



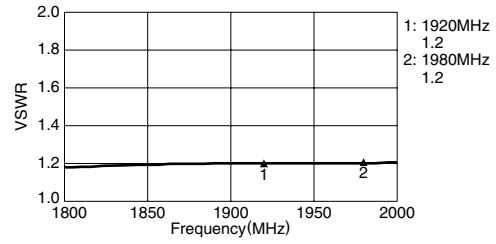
ISOLATION



INSERTION LOSS



VSWR

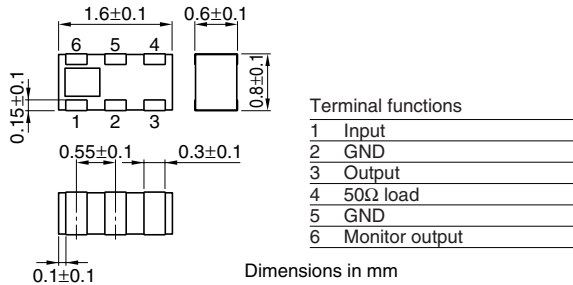


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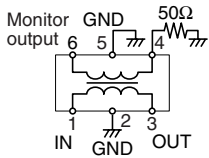
Conformity to RoHS Directive

HHM Series HHM2218SA1

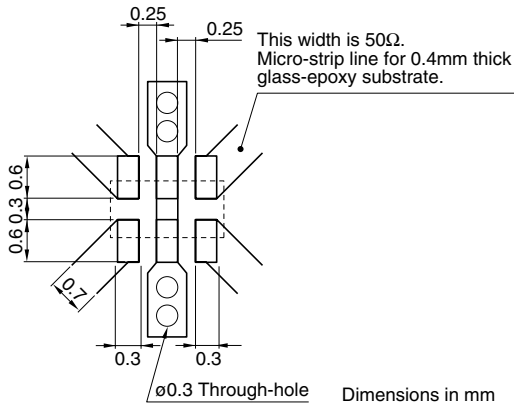
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERNS



ELECTRICAL CHARACTERISTICS

Frequency range	1920 to 1980MHz
Coupling factor	11.0±1.0dB
Insertion loss	0.60dB max.*1 0.65dB max.*2
Isolation	24dB min.
VSWR	1.5 max.
Temperature range	Operating: -40 to +85°C Storage: -40 to +85°C

*1 25°C

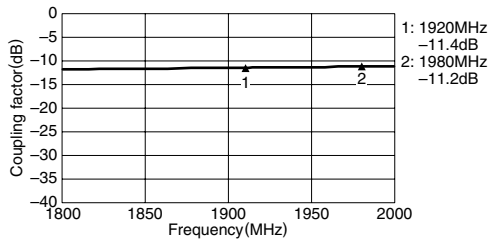
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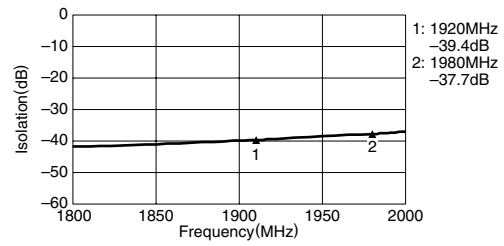
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FREQUENCY CHARACTERISTICS

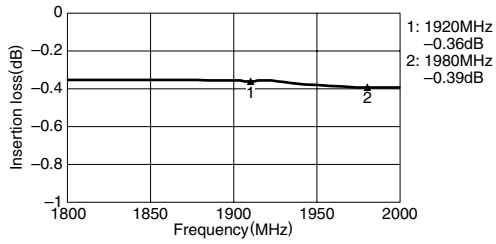
COUPLING



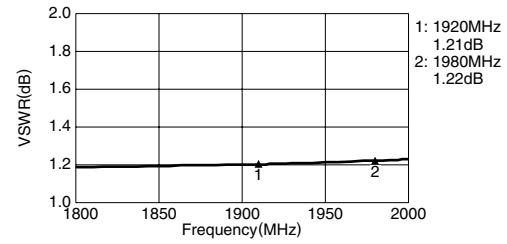
ISOLATION



INSERTION LOSS



VSWR

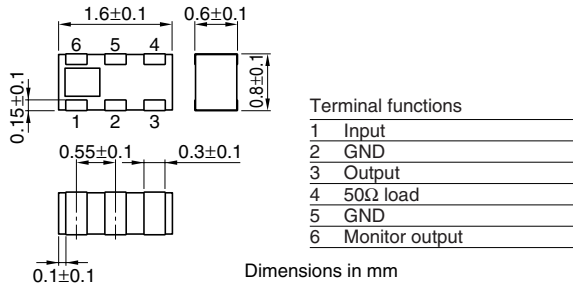


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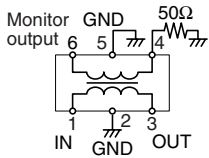
Conformity to RoHS Directive

HHM Series HHM2220SA3

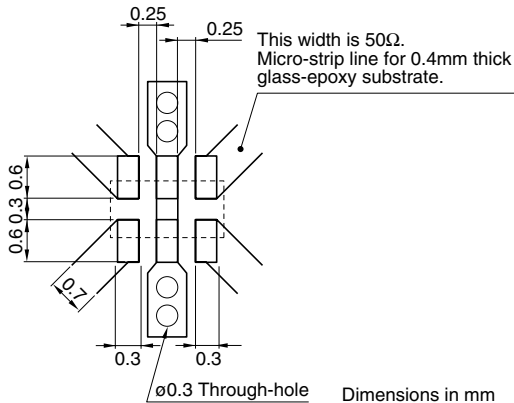
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERNS



ELECTRICAL CHARACTERISTICS

Frequency range	1920 to 1980MHz
Coupling factor	16.0±1.0dB
Insertion loss	0.30dB max.*1 0.35dB max.*2
Isolation	25dB min.
VSWR	1.4 max.
Temperature range	Operating -40 to +85°C Storage -40 to +85°C

*1 25°C

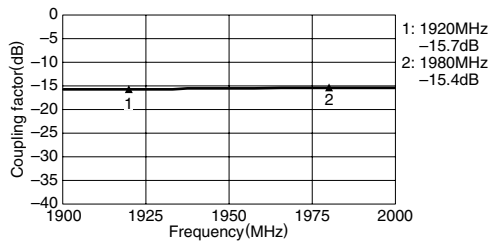
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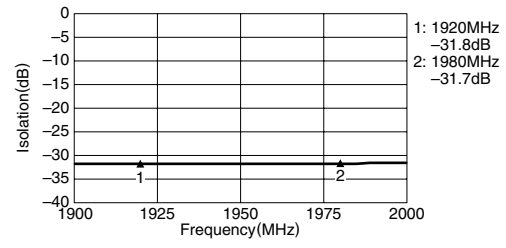
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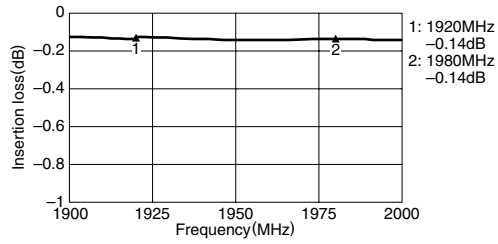
COUPLING



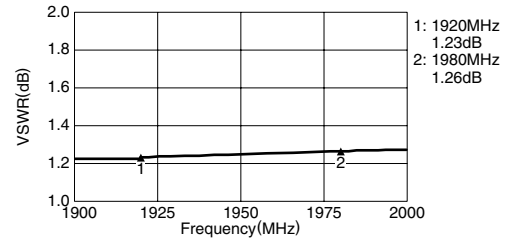
ISOLATION



INSERTION LOSS



VSWR



Mouser Electronics

Authorized Distributor

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TDK:

[HHM2220SA3](#)