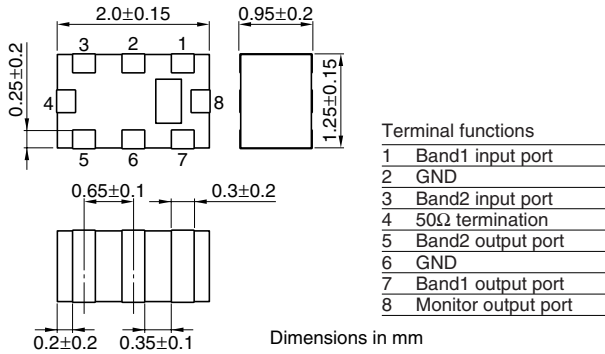


Multilayer Chip Dual-Band Directional Couplers For GSM/DCS/PCS-Tx

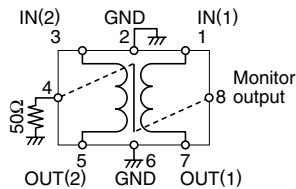
Conformity to RoHS Directive

HHM Series HHM2317B3

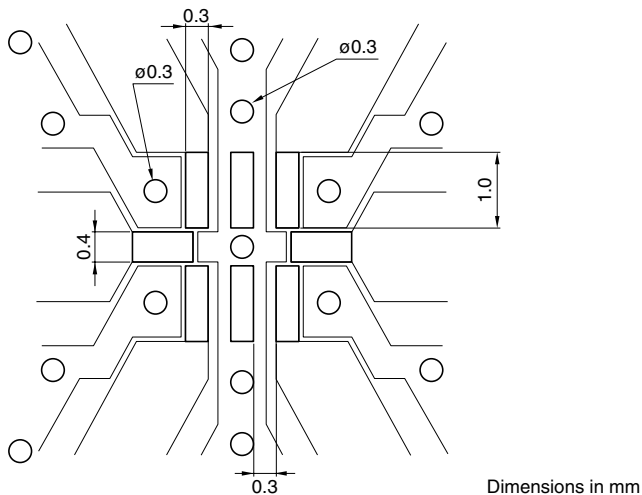
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERNS



This width is 50Ω
CPW for 0.6mm thick Teflon substrate.

- 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.

ELECTRICAL CHARACTERISTICS

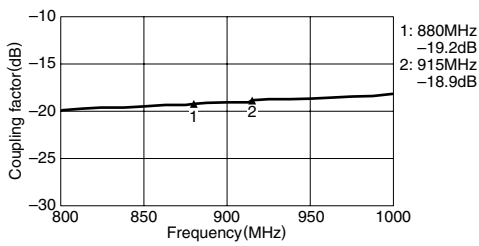
Band		1	2	
System		GSM	DCS	PCS
Frequency range	(MHz)	880 to 915	1710 to 1785	1850 to 1910
Coupling factor	(dB)	-19.0±1.0	-14.0±1.0	-13.5±1.0
Insertion loss	(dB)max.	0.30	0.45	0.50
Isolation*	IN1-OUT2	(dB)min.	27	27
	IN2-OUT1	(dB)min.	25	25
	IN1-IN2	(dB)min.	22	22
	IN-Load	(dB)min.	27	25
VSWR	max.	1.3	1.3	1.3
Temperature range	Operating	(°C)	-40 to +85	-40 to +85
	Storage	(°C)	-40 to +85	-40 to +85

* Isolation between opposite bands is specified over the frequency ranges of both bands.
Isolation in-band is specified over the frequency of the band in frequency.

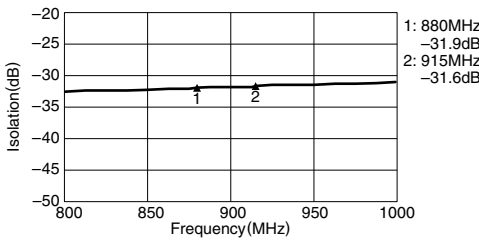
FREQUENCY CHARACTERISTICS

GSM900

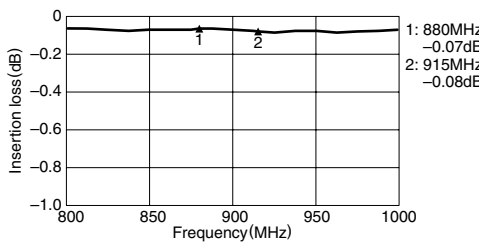
COUPLING



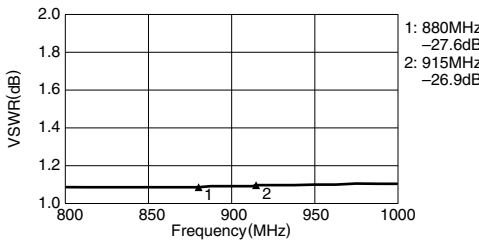
ISOLATION



INSERTION LOSS

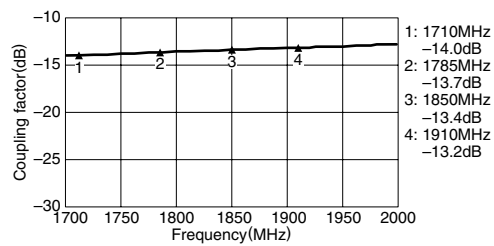


VSWR

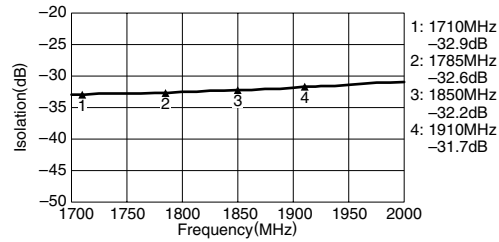


DCS1800/PCS1900

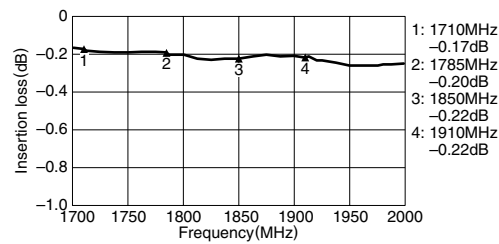
COUPLING



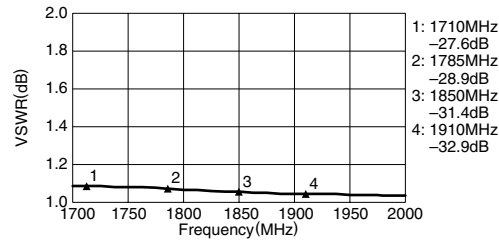
ISOLATION



INSERTION LOSS



VSWR



• All specifications are subject to change without notice.

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