

RF Components

Directional Couplers

Shielded

HHM-24, 26 Series

FEATURES

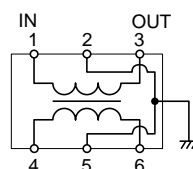
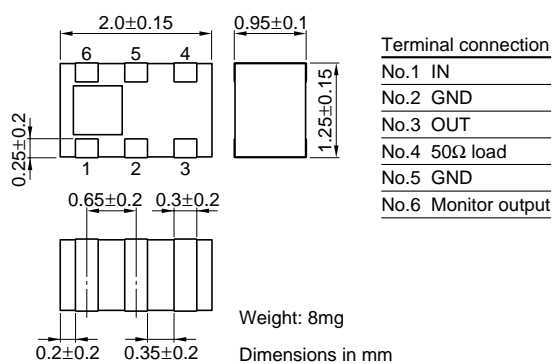
- Compact, thin, and lightweight chip coupler manufactured in ceramic sheet multilayering process (L2.0×W1.25×T0.95mm/8mg).
- According with customers' circuits, wide characteristics are achieved from the low loss type(HM24 series) to the type with low pass function(HHM26 series).
- Provided with excellent environmental resistance and stable characteristics achieved under use of portable remote terminal in hostile environment.

APPLICATIONS

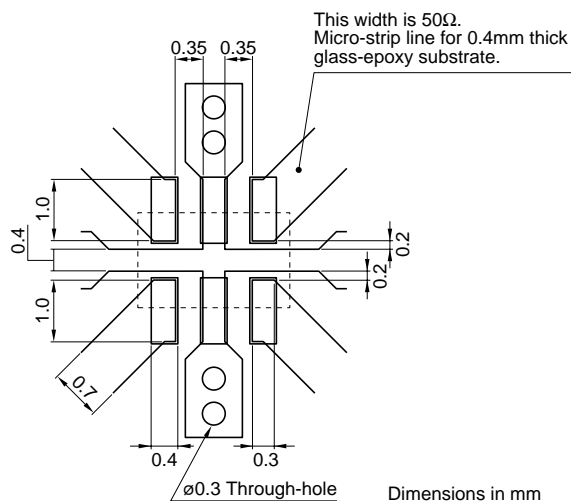
For 0.8 to 2GHz digital cellular and cordless phones

HHM24 SERIES

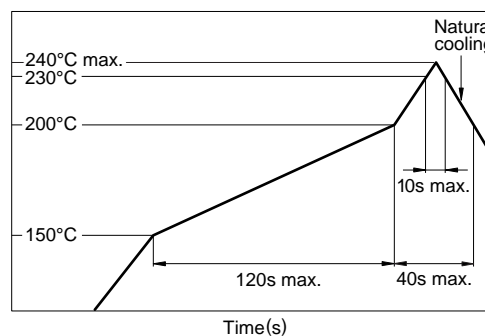
SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



RECOMMENDED REFLOW SOLDERING CONDITIONS



APPLICATIONS/TYPICAL ELECTRICAL CHARACTERISTICS

Part No.	Applications	Frequency f ₀ (MHz)	Insertion loss (dB)max.	Coupling factor (dB)typ.	Isolation (dB)min.	VSWR max.
HHM2405	GSM	880 to 915	0.25	-18	25	1.3
HHM2411	DCS	1710 to 1785	0.3	-15	20	1.4
HHM2412	PCS	1850 to 1910	0.35	-14.5	20	1.4

T_a=25±5°C

RF Components

Directional Couplers Shielded

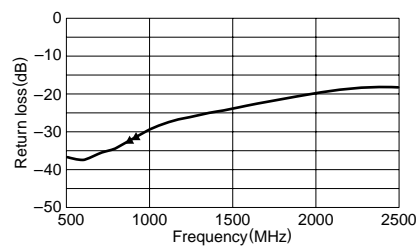
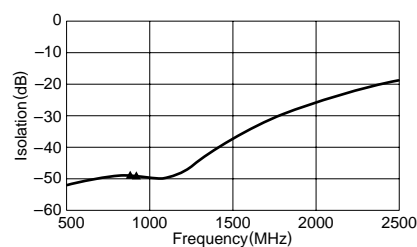
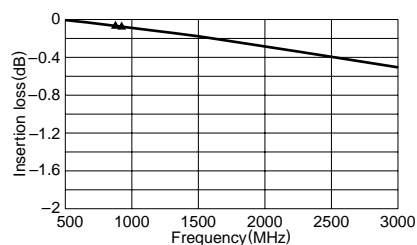
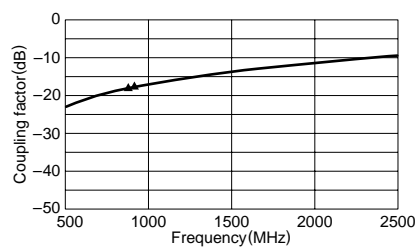
HHM-24, 26 Series

HHM24 SERIES

TYPICAL ELECTRICAL CHARACTERISTICS

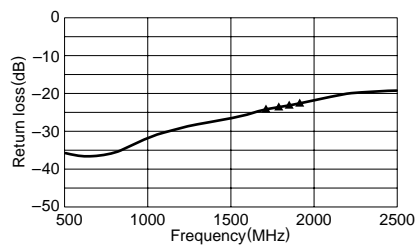
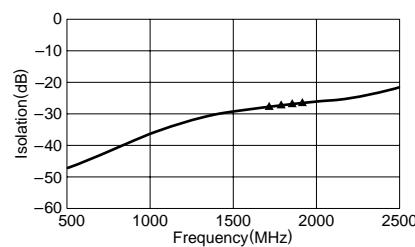
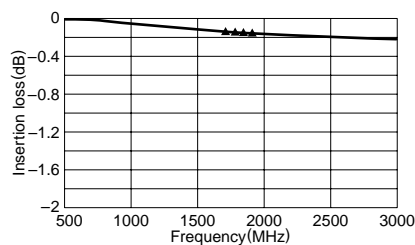
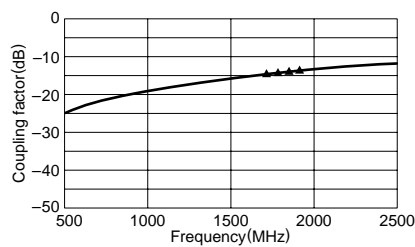
FREQUENCY CHARACTERISTICS

GMS HHM2405



DCS HHM2411

PCS HHM2412



RF Components

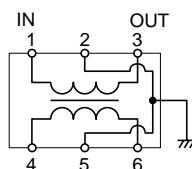
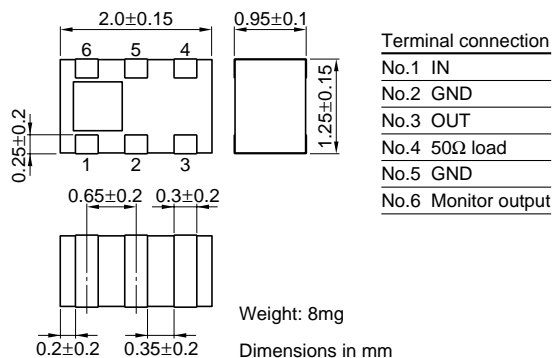
Directional Couplers

Shielded

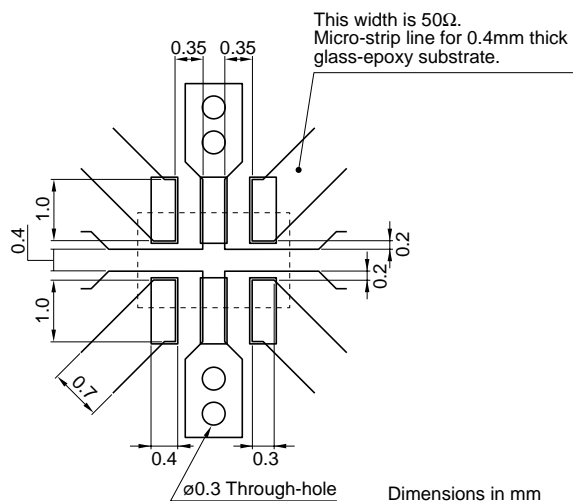
HHM-24, 26 Series

HHM26 SERIES

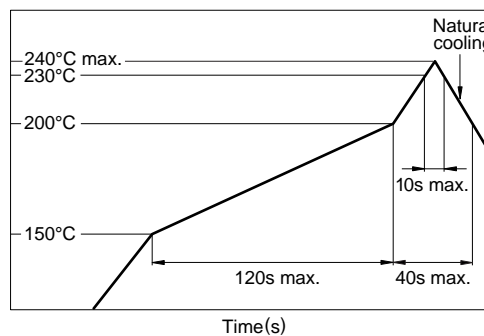
SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



RECOMMENDED REFLOW SOLDERING CONDITIONS



APPLICATIONS/TYPICAL ELECTRICAL CHARACTERISTICS

Ta=25±5°C

Part No.	Applications	Frequency fo(MHz)	Insertion loss (dB)max.	Coupling factor (dB)typ.	Isolation (dB)min.	VSWR max.	2fo attenuation (dB)min.*1	3fo attenuation (dB)min.*2
HHM2610	GSM	880 to 915	0.5	-14	22	1.5	22	14
HHM2607	DCS	1710 to 1785	0.5	-15	22	1.7	22	14

*1 2fo=Second harmonics out of band rejection

*2 3fo=Third harmonics out of band rejection

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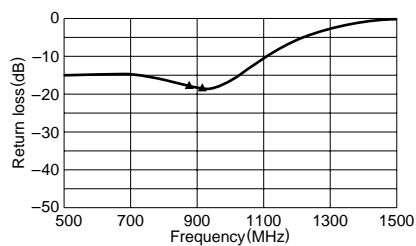
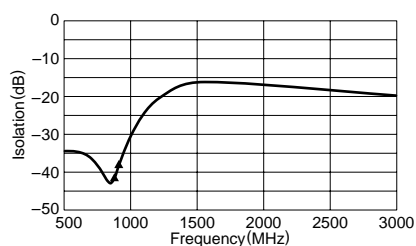
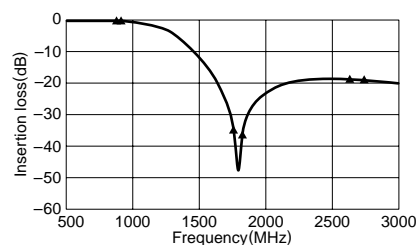
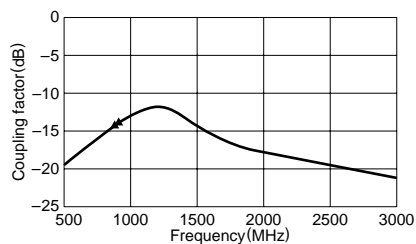
HHM-24, 26 Series

HHM26 SERIES

TYPICAL ELECTRICAL CHARACTERISTICS

FREQUENCY CHARACTERISTICS

GSM HHM2610



DCS HHM2607

