

MICROWAVE COMPONENTS

720 to
1600MHz

Directional Card Couplers

CL 352

◆ GENERAL FEATURES

The directional card coupler is designed to monitor the power consumption and frequency of mobile radio base stations. It uses the strip line tri-

plate system and is compact, lightweight, and inexpensive.

◆ MATERIAL • FINISH

Part name	Material	Finish
Case	Aluminum	Conductive White Alumite
P.C.Board	Dielectric	Gold plated
Rivet	Aluminum	
Eyelet	Brass	Nickel plated
Tab	Phosphor Bronze	Gold plated

◆ OPERATIONAL ENVIRONMENT

Operating temperature; $-10^{\circ}\text{C}\sim+65^{\circ}\text{C}$

Humidity; 0~95%

◆ TEST ENVIRONMENT

Vibration resistance; 10~55Hz

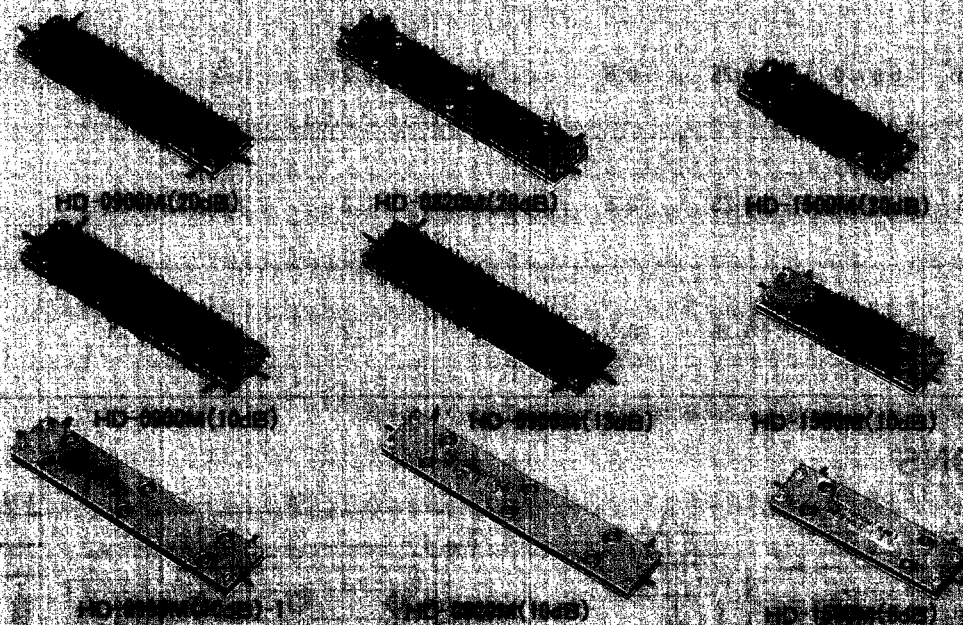
Total amplitude; 1.5mm 55~2000Hz 98m/s²

Temperature resistance; $-55^{\circ}\text{C}\sim+80^{\circ}\text{C}$

Impulse resistance; 490m/s²

Testing Method per MIL-STD-202

Corrosion resistance; Salt spray test; 20% salt, 48hours

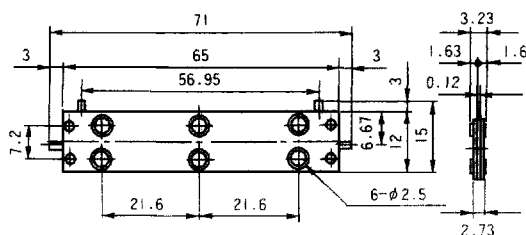


◆ SPECIFICATIONS

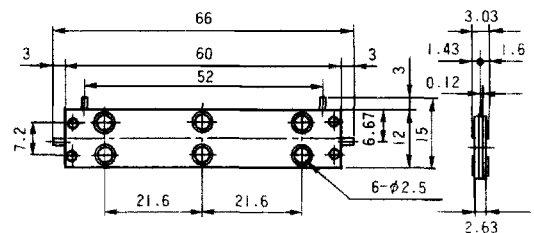
Model No.	Frequency Range (GHz)	Coupling (dB)	Frequency Sensitivity (dB)	Insertion Loss (dB MAX)	Directivity (dB Min)	Primary Line VSWR (Max)	Secondary Line VSWR (Max)	Weight (g)	Power (W)
HD-0820M (10dB)	0.72~0.92	10±1.0	±0.25	0.35	20	1.2	1.2	4.7	25
HD-0820M (20dB)	0.72~0.92	20±1.0	±0.25	0.5	15	1.2	1.2	4.7	25
HD-0900M (10dB)	0.8~1.0	10±1.0	±0.5	0.8	17	1.2	1.2	5	50
HD-0900M (10dB)	0.8~1.0	10±1.0	±0.5	0.5	18	1.2	1.2	5	25
HD-0900M (13dB)	0.8~1.0	13±1.0	±0.5	0.7	16	1.2	1.2	5	50
HD-0900M (20dB)	0.8~1.0	20±1.0	±0.5	0.5	15	1.2	1.2	5	50
HD-1500M (6dB)	1.4~1.6	6±1.0	±0.25	0.5	18	1.2	1.2	3.2	50
HD-1500M (10dB)	1.4~1.6	10±1.0	±0.25	0.5	18	1.2	1.2	3	25
HD-1500M (20dB)	1.4~1.6	20±1.0	±0.25	0.5	18	1.2	1.2	3	25

● Loss due to coupling is not included in insertion loss (except for items indicated by the X* symbol).

◆ DIMENSIONS

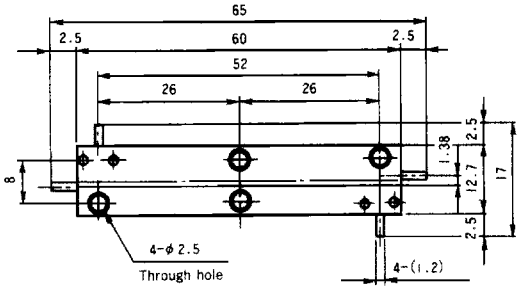


HD-0820M(10dB*20dB)

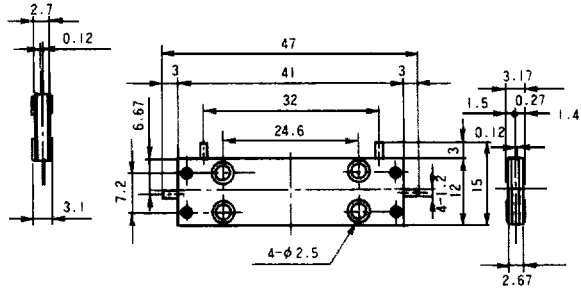


HD-0900M(10dB)-1

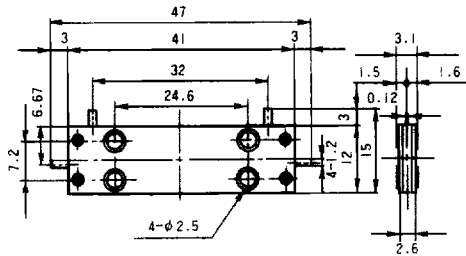
MICROWAVE COMPONENTS



HD-0900M (10·13·20dB)

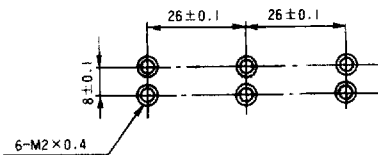


HD-1500M (6dB)

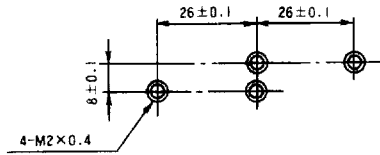


HD-1500M (10·20dB)

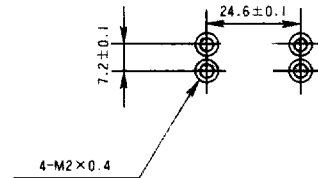
◆ Mounting hole dimensions



HD-0820M (10·20dB)
HD-0900M (10dB)-1



HD-0900M (10·13·20dB)



HD-1500M (6·10·20dB)

MICROWAVE COMPONENTS

◆ (Typical) DATA

