

MICROWAVE COMPONENTS

800 to 2300MHz	Ceramic Couplers	CL 352
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◆ GENERAL FEATURES

Developed with our compact high-matching technology, the ceramic couplers are lightweight, miniature directional couplers that are compatible with SMT.

These ceramic couplers have excellent high-

frequency characteristics with extremely low loss and high-matching. They very suitable for portable and base station units. To meet automatic packaging requirements, available in embossed tape packaging. (Individual delivery is possible.)

◆ MATERIAL FINISH

Part Name	Material	Finish
Body	Ceramic	Agpd

※Finish for HD-21503S is solder plating.

◆ TEST ENVIRONMENT

Vibration resistance; 10~55Hz
 Total amplitude; 1.5mm 55~2000Hz 98m/s²
 Temperature resistance; -55°C~+80°C
 Impulse resistance; 490m/s²
 Testing Method per MIL-STD-202

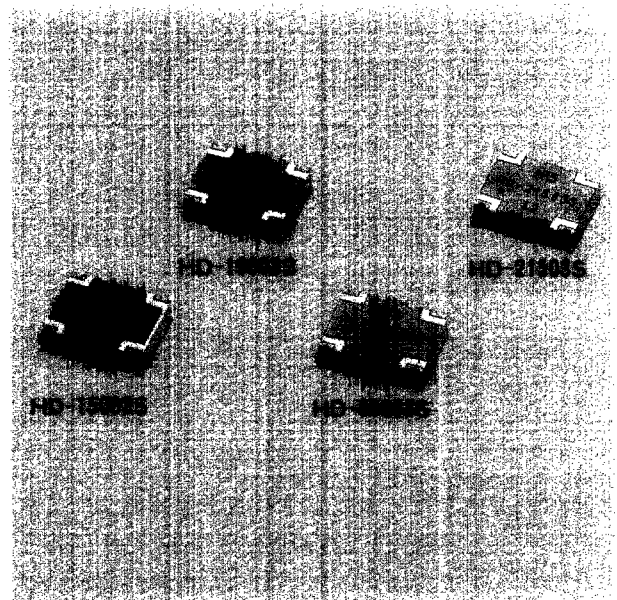
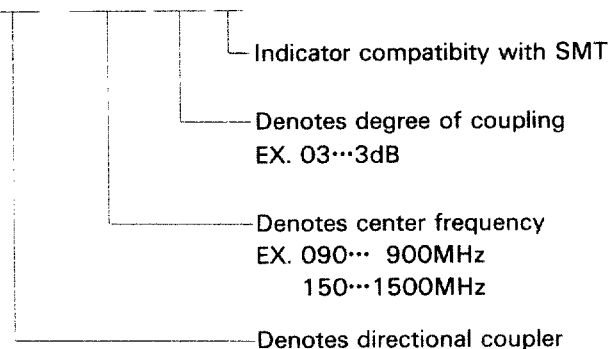
◆ OPERATIONAL ENVIRONMENT

Operating temperature; -10°C~+65°C

Humidity; ~95%

◆ MODEL No.

HD - 090 03 S



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◆ SPECIFICATIONS

Model No.	Frequency Range (MHz)	Coupling (dB)	Frequency Sensitivity (dB)	Isolation (dB Min)	VSWR (Max)	Weight (g)	Power (W)	Fig
NEW HD-09003S	800~1000	3 ^{+0.4}	±0.5	20	1.2	0.6	20	1
NEW HD-15003S	1400~1600	3 ^{+0.4}	±0.5	20	1.2	0.6	20	1
NEW HD-19003S	1850~1950	3 ^{+0.4}	±0.5	20	1.2	0.6	10	1
NEW HD-21503S	2000~2300	3 ^{+0.4}	±0.5	20	1.2	0.6	10	1

● There is phase difference of 90° between output and degree of coupling.

◆ DIMENSIONS

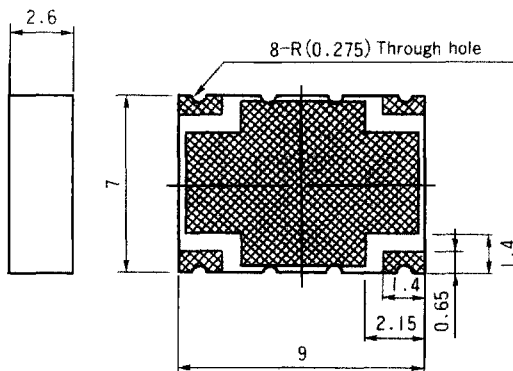
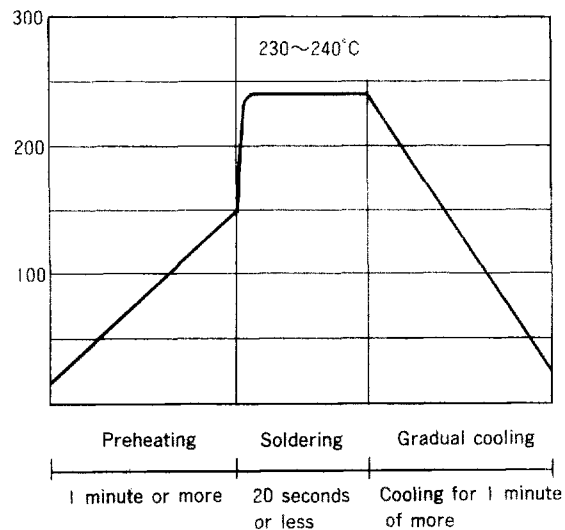
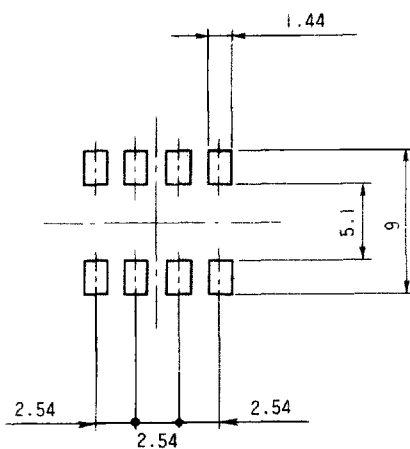


Fig.1

◆ REFLOW CONDITION



◆ RECOMMENDED PATTERN



• Apply resist around the electrode pad.

◆ NOTE

- Use 2.5% Ag 6×4 or 5×5 Sn-Pb based solder. Check for erosion after soldering when you have used solder that does not contain Ag because it causes electrode erosion two or three times faster than Ag-containing solder.
- After unpacking, seal the package quickly or store it in a desiccator with a drying agent.
- Store the components in an atmosphere that is free from noxious gasses such as sulphur and chlorine.
- Use the components within one year after delivery.