

MICROWAVE COMPONENTS

30 to 300MHz	Microwave Coil Components (SMD)	CL 360
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◆ GENERAL FEATURES

The MC-200SC and 200SD Series are miniature, lightweight SMT power combiners and splitters capable of splitting and combining high-frequency signals at a phase-difference of zero and 90 degrees.

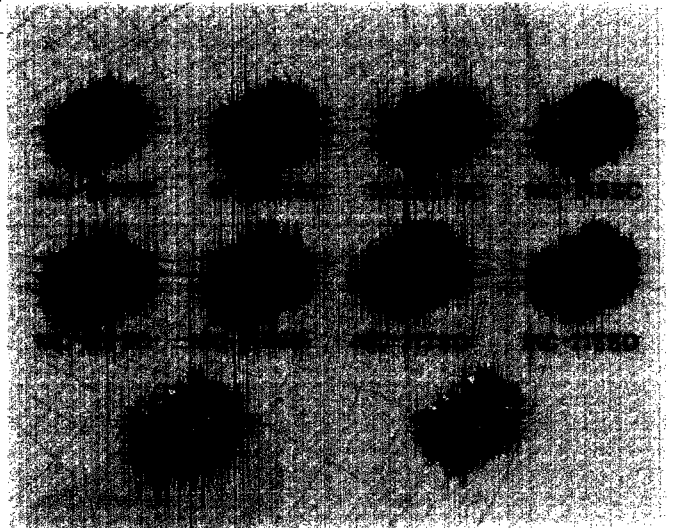
- Has excellent high-frequency characteristics, especially with respect to insertion loss (0.6dB TYP) and phase balance (± 3 degrees TYP).
- Highly reliable design (no changes in appearance occur after being subjected to a test equivalent to MIL-STD-202).
- SMT compatible and featuring a miniaturized design, the Series permits reflow soldering and high-density packaging.
- Using a PPS-resin case, glass epoxy printed circuit board, and solder-plated electrodes, this Series has high mechanical strength and heat resistance and electrodes that permit easy soldering.
- Available in embossed tape packaging. To meet automatic packaging requirements.

◆ OPERATIONAL ENVIRONMENT

Operating temperature; $-10^{\circ}\text{C}\sim+65^{\circ}\text{C}$
Humidity; $0\sim 95\%$

◆ TEST ENVIRONMENT

Vibration resistance; $10\sim 55\text{Hz}$
Total amplitude; $1.5\text{mm } 55\sim 2000\text{Hz } 98\text{m/s}^2$
Temperature resistance; $-35^{\circ}\text{C}\sim+80^{\circ}\text{C}$
Impulse resistance; 294m/s^2
Testing Method per MIL-STD-202

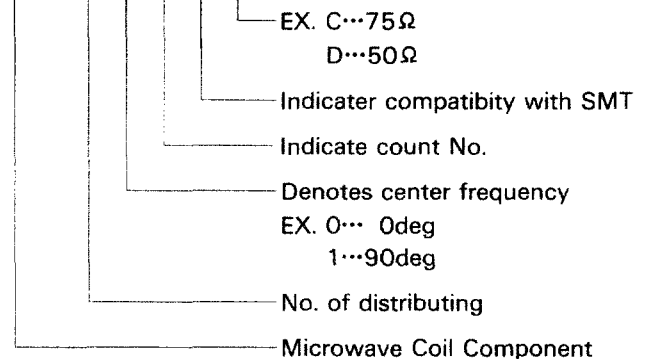


◆ MATERIAL • FINISH

Part name	Material	Finish
Boed	Glass Epoxy	Solder plated
Cover	Polyphenylene Sulfide	

◆ MODEL No.

MC - 2 0 1 S C



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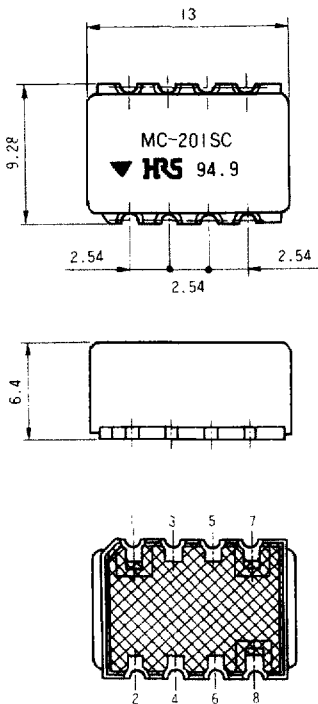
◆ SPECIFICATIONS

(POWER COMBINERS AND SPLITTERS)

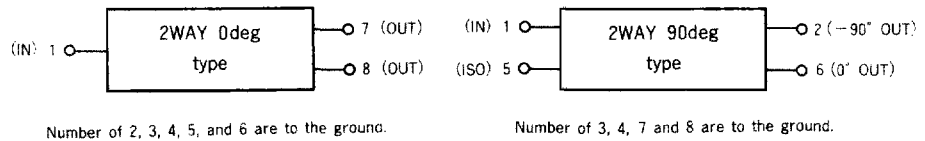
Model No.	Frequency Range (MHz)	Phase Difference (deg)	above 3dB Insertion Loss (dB Max)	Isolation (dB Min)	VSWR (Max)	Balance		Impedance (Ω)	Weight (g)
						Phase (deg)	Amplitude (dB)		
NEW MC-201SC	30~200	0	0.6	20	1.3	± 3	± 0.1	75	1
NEW MC-212SC	50~95	-90	0.6	20	1.2	± 3	± 0.5	75	1
NEW MC-217SC	45~70	-90	0.6	20	1.2	± 3	± 0.5	75	1
NEW MC-218SC	70~100	-90	0.6	20	1.2	± 3	± 0.5	75	1
NEW MC-201SD	30~230	0	0.6	20	1.3	± 3	± 0.15	50	1
NEW MC-211SD	170~230	-90	0.6	20	1.2	± 3	± 0.5	50	1
NEW MC-212SD	45~104	-90	0.6	20	1.2	± 3	± 0.5	50	1
NEW MC-213SD	330~370	-90	1.3	16	1.4	± 4	± 0.5	50	1

*Insertion Loss of 2 WAY 90deg is got by subtracting Coupling 3dB from the average Output of 0° port~90° port.

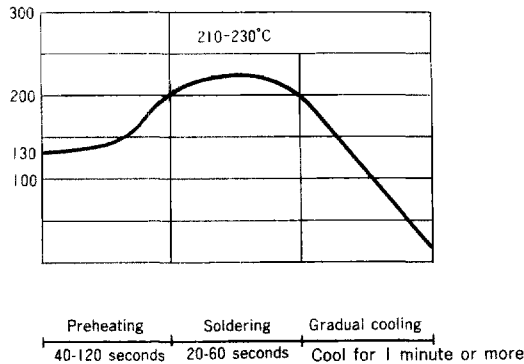
◆ DIMENSIONS



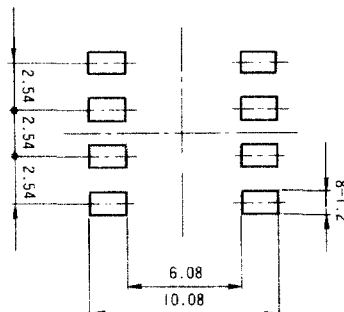
◆ SCHEMATIC



◆ REFLOW CONDITION



◆ RECOMMENDED PATTERN



● These terminal numbers are applicable to both 0-degree and 90-degree types.

● Apply resist around the electrode pad.

◆ (Typical)DATA

