

MICROWAVE COMPONENTS

30 to
200MHz

Microwave Coil Components (Relay Header)

CL 360

◆ GENERAL FEATURES

The MC-200RC Series Microwave Coil Component (with relay header) is a 2.54-mm (.1") pitch compact device for distributing and synthesizing IF band signals having 0° and 90° phase shift. The metal case packaging (relay header type) is sealed to assure the

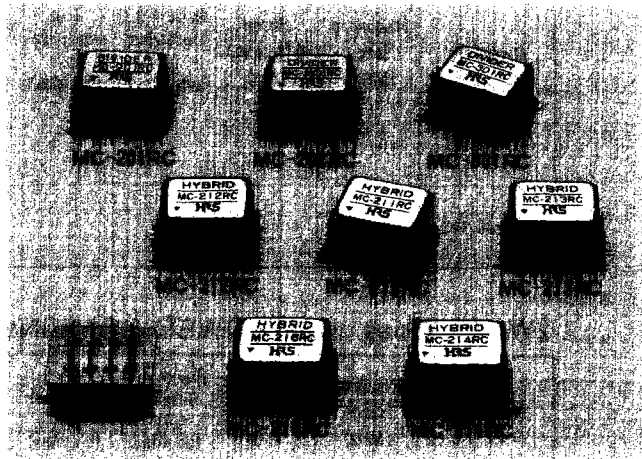
highest reliability over long periods. A Teflon (TR) sheet is also provided to prevent soldering flux problems and permits double-sided pattern surfaces to be used.

◆ 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; $-35^{\circ}\text{C}\sim+80^{\circ}\text{C}$
Impulse resistance; 294m/s²
Testing Method per MIL-STD-202

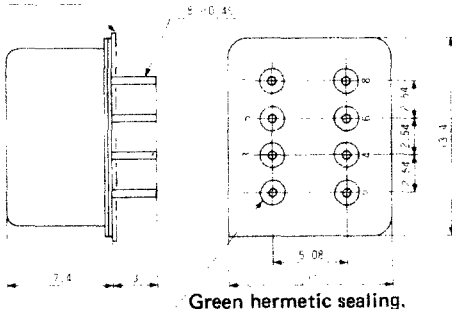


◆ MATERIAL • FINISH

Part name	Material	Finish
Body	Iron	Nickel plated
Contact	Iron-Nickel alloy	Solder dip
Hermetic seal	Glass	

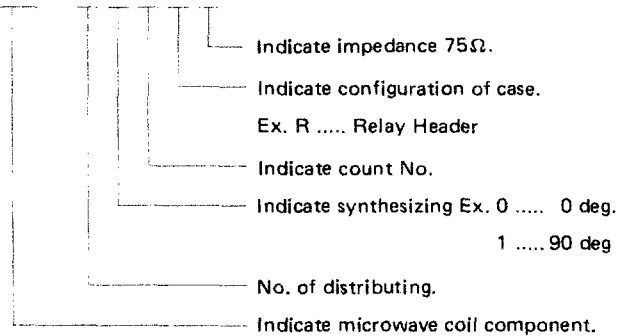
◆ DIMENSIONS

Teflon sheet (t ≈ 0.2)

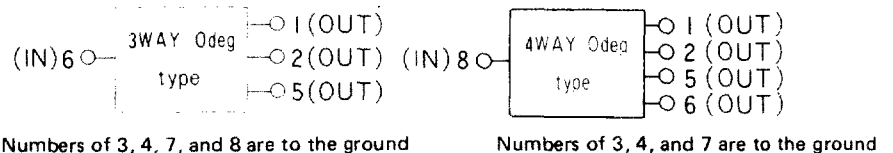
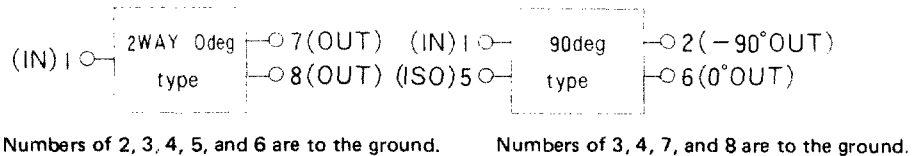


◆ MODEL No.

MC - 2 0 1 R C



◆ SCHEMATIC



MICROWAVE COMPONENTS

◆ SPECIFICATIONS

2WAY 0deg type(POWER COMBINERS AND SPLITTERS)

Model No.	Frequency Range (MHz)	Phase difference (deg)	Above 3dB insertion loss (dB Max)	True insertion loss (dB Max)	Isolation (dB Min)	VSWR (Max)	Balance		Impedance (Ω)	Weight (g)
							Phase (deg)	Amplitude (dB)		
MC-201RC	30~200	0	0.6	3.6	25	1.3	± 3	± 0.1	75	3
MC-202RC	100~180	0	0.6	3.6	30	1.15	± 3	± 0.1	75	3

3WAY 0deg type(POWER COMBINERS AND SPLITTERS)

Model No.	Frequency Range (MHz)	Phase difference (deg)	Above 4.8dB insertion loss (dB Max)	True insertion loss (dB Max)	Isolation (dB Min)	VSWR (Max)	Balance		Impedance (Ω)	Weight (g)
							Phase (deg)	Amplitude (dB)		
MC-301RC	40~160	0	0.7	5.5	25	1.3	± 3	± 0.2	75	3
MC-302RC	100~180	0	0.7	5.5	25	1.2	± 3	± 0.2	75	3

2WAY 90deg type(POWER COMBINERS AND SPLITTERS)

Model No.	Frequency Range (MHz)	Phase difference (deg)	Above 3dB insertion loss (dB Max)	True insertion loss (dB Max)	Isolation (dB Min)	VSWR (Max)	Balance		Impedance (Ω)	Weight (g)
							Phase (deg)	Amplitude (dB)		
MC-212RC	50~95	-90	0.6	3.85	25	1.2	± 3	± 0.5	75	3
MC-211RC	110~170	-90	0.7	3.85	25	1.2	± 3	± 0.5	75	3
MC-213RC	100~120	-90	0.7	3.85	20	1.2	± 3	± 0.5	75	3
MC-215RC	120~140	-90	0.7	3.85	20	1.2	± 3	± 0.5	75	3
MC-216RC	140~160	-90	0.7	3.85	20	1.2	± 3	± 0.5	75	3
MC-214RC	160~180	-90	0.8	3.95	20	1.2	± 3	± 0.5	75	3

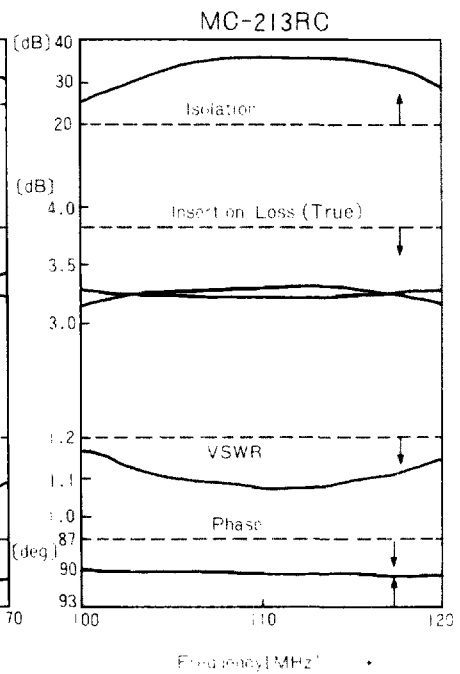
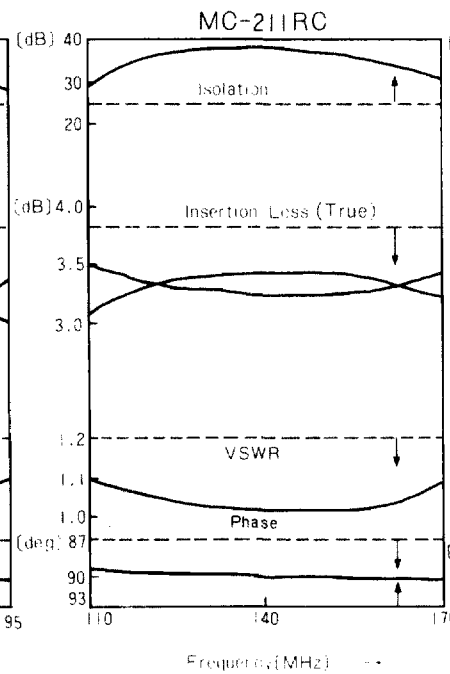
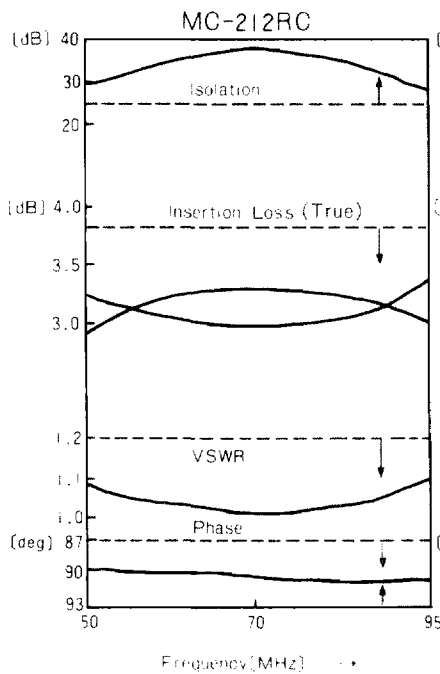
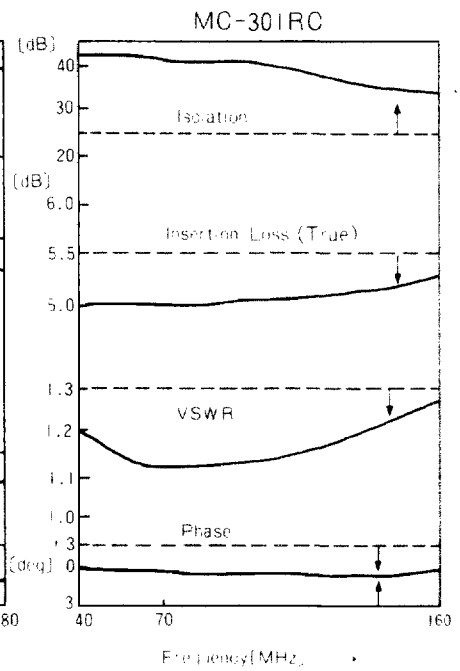
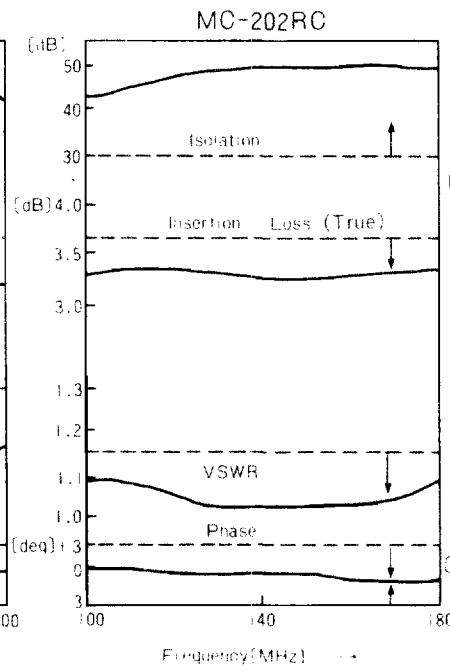
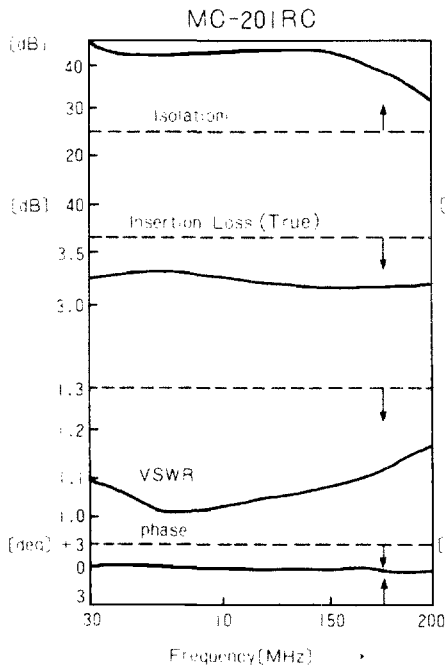
※ Insertion Loss of 2 WAY 90deg is got by subtracting Coupling 3dB from the average Output of 0° port~90° port.

4WAY 0deg type(POWER COMBINERS AND SPLITTERS)

Model No.	Frequency Range (MHz)	Phase difference (deg)	Above 6dB insertion loss (dB Max)	True insertion loss (dB Max)	Isolation (dB Min)	VSWR (Max)	Balance		Impedance (Ω)	Weight (g)
							Phase (deg)	Amplitude (dB)		
MC-401RC	40~180	0	0.8	6.8	20	1.3	± 3	± 0.2	75	3

MICROWAVE COMPONENTS

◆ (Typical) DATA



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