10 to 500MHz	Microwave Coil Components (Flat Pack)	CL 360

GENERAL FEATURES

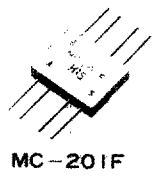
The Microwave Coil Component (with flat pack) is a very compact, lightweight device designed for surface mounting. It is a combination of a signal distributing or and synthesizer with 0° and 90° phase shifts, 3-way divider and a coupler. The compact metal case packaging (flat pack type) is sealed to assure the highest reliability.

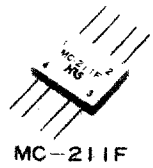
OPERATIONAL ENVIRONMENT

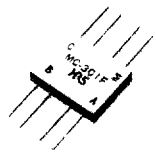
Operating temperature; −35°C～+100°C
Humidity; 0～95%

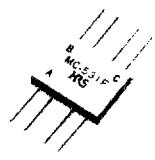
TEST ENVIRONMENT

Vibration resistance; 10～55Hz
Total amplitude; 1.5mm 55～2000Hz 196m/s²
Temperature resistance; −65°C～+125°C
Impulse resistance; 294m/s²
Testing Method per MIL-STD-883


MC−201F


MC−211F


MC−301F


MC−531F

MATERIAL·FINISH

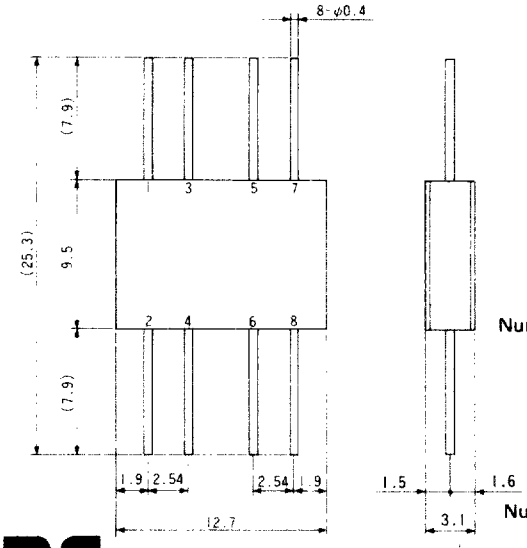
Part name	Material	Finish
Body	Kovar	Gold plated
Contact	Kovar	Gold plated
Hermetic seal	Glass	

MODEL No.

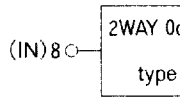
MC − 2 0 1 F

- Indicate configuration of case.
  Ex. F ..... Flat Pack
- Indicate count No.
- Indicate synthesizing Ex. 0 ..... 0 deg.
  1 ..... 90 deg.
- No. of distributing.
  Ex. 2 ..... 2-way divider
  3 ..... 3-way divider
  5 ..... Directivity coupling
- Indicate microwave coil component.

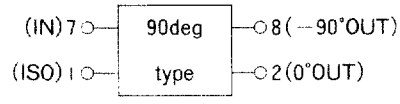
DIMENSIONS



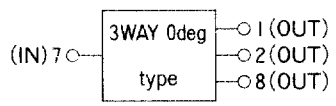
SCHEMATIC



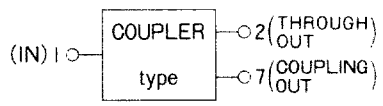
Numbers of 3, 4, 5, 6, and 7 are to the ground



Numbers of 3, 4, 5, and 6 are to the ground



Numbers of 3, 4, 5, and 6 are to the ground



Numbers of 3, 4, 5, 6,and 8 are to the ground

SPECIFICATIONS

2WAY 0deg type

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-201F	10 ~ 500	0	0.7	3.7	25	1.3	± 1	±0.2	50	2

3WAY 0deg type

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-301F	10 ~ 500	0	0.8	5.6	20	1.3	± 3	±0.2	50	2

2WAY 90deg type

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-211F	225 ~ 400	−90	1.3	4.3	16	1.3	± 4	± 1	50	2

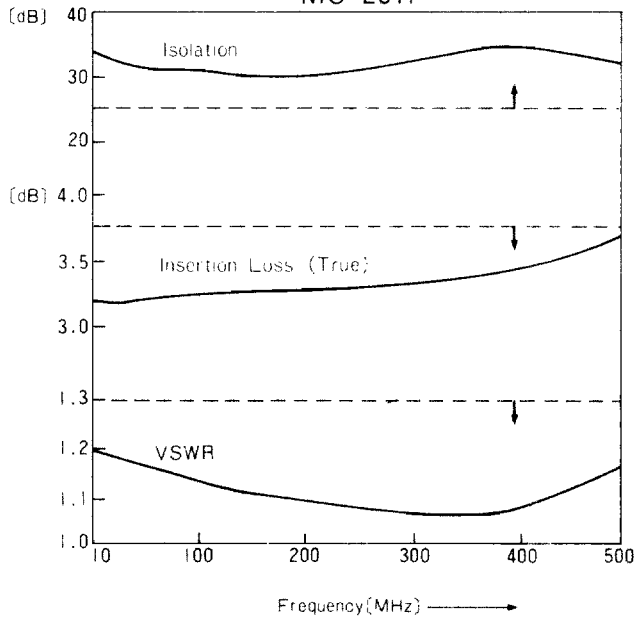
※ Insertion Loss of 2WAY 90deg is got by substracting Coupling 3dB from the average Output of 0°part~90°port.

COUPLER type

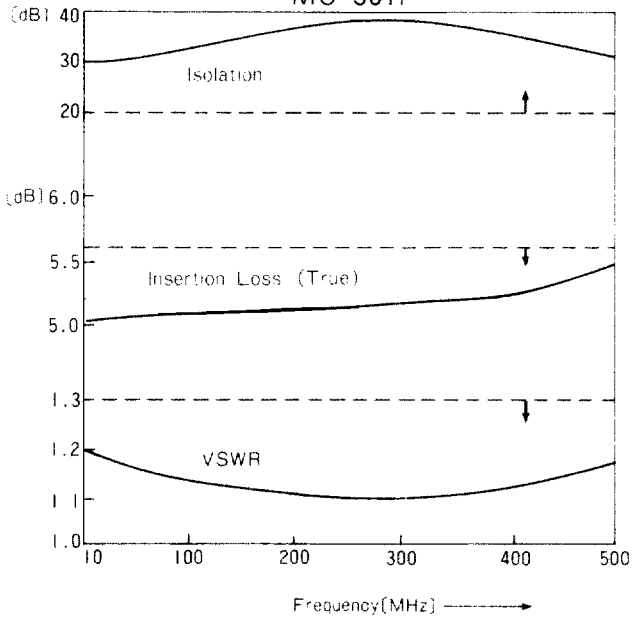
Model No.	Frequency Range (MHz)	Coupling (deg)	Insertion Loss (dB Max)	Directivity (dB Min)	VSWR (Max)	Impedance (Ω)	Weight (g)
MC-531F	10 ~ 500	15±0.5	0.7	25	1.3	50	2

(Typical)DATA

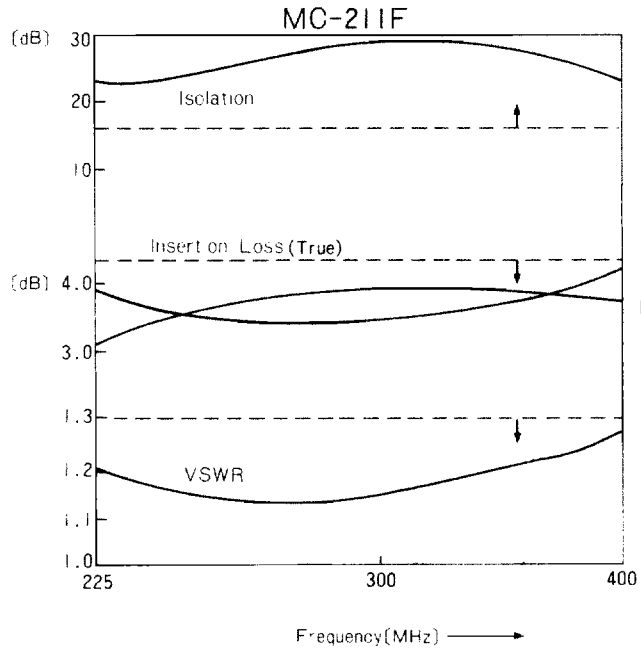
MC-201F



MC-301F



MC-211F



MC-531F