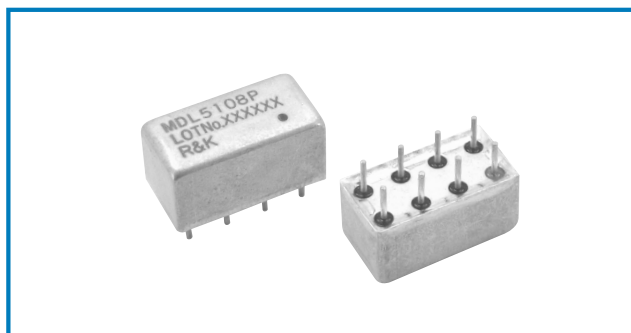


DOUBLE BALANCED MIXER

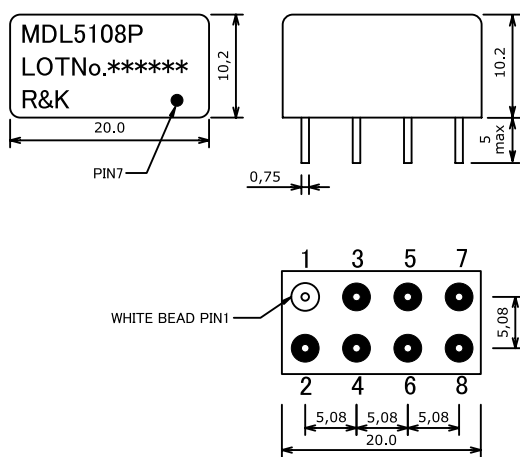


R&K-MDL510



OUTLINE DRAWING

※IN MILLIMETERS



- Frequency : DC-250MHz
- Low LO Drive Level : +7dBm
- Low Cost / 8PIN Package
- RoHS Compliance

SPECIFICATIONS

Frequency Range [LO&RF] : 0.01-250MHz
[IF] : DC-250MHz

Conversion Loss (LO Drive Level +7dBm)

	0.01 - 0.1MHz	0.1 - 10MHz	10 - 250MHz
Typ.	6.0dB	5.0dB	7.5dB
Max.	8.0dB	7.0dB	9.5dB

Isolation (min.)

	0.01 - 0.1MHz	0.1 - 10MHz	10 - 250MHz
LO - RF	35dB	30dB	20dB
LO - IF	45dB	40dB	15dB
RF - IF	20dB	20dB	5dB

Input IP3 @Center Band : +10dBm (typ.)

Input 1dB Comp. Point : +1dBm (typ.)

Impedance (All Ports) : 50 Ω

Maximum RF Input Power : 50mW

Maximum Peak IF Current : 50mA

Operating Temperature : -40°C to +85°C

Storage Temperature : -40°C to +100°C

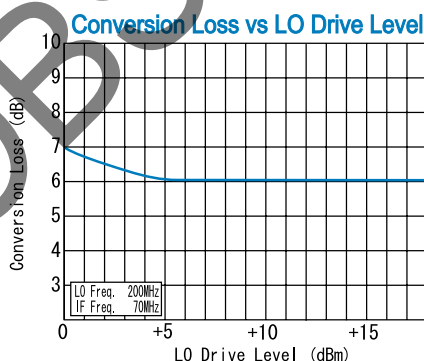
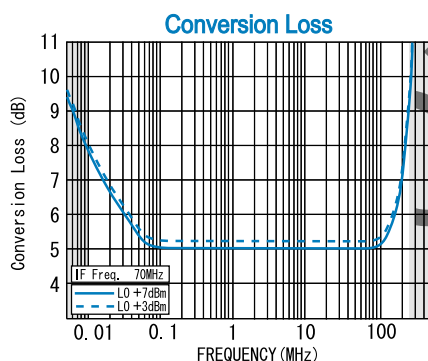
HOW TO ORDER

Model Name

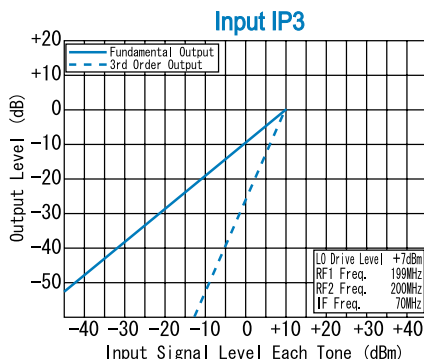
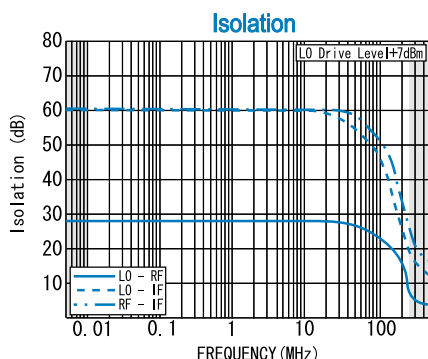
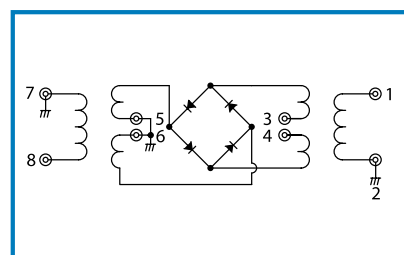
R&K-MDL5108P

8P=8PIN Package

TYPICAL PERFORMANCE (Temp @+25°C)



SCHEMATIC



Function	Pin No.
RF	1
IF	3, 4
LO	8
GND	2, 5, 6, 7

R&K reserves the right to make changes in the specifications of or discontinue products at any time without notice. R&K products shall not be used for or in connection with equipment that requires an extremely high level of reliability and safety such as aerospace uses or medical life support equipment. Further, R&K cannot export products to any country for use in military or defense applications.

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