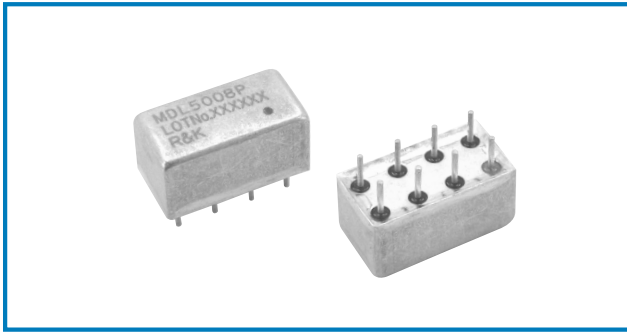


# DOUBLE BALANCED MIXER

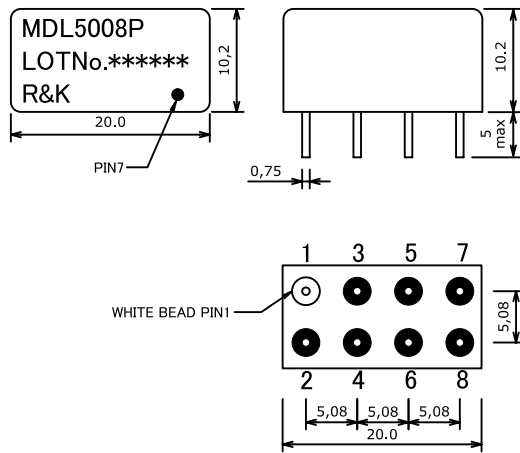


## R&K-MDL500



### OUTLINE DRAWING

※IN MILLIMETERS



- Frequency : DC-50MHz
- Low LO Drive Level : +7dBm
- Low Cost / 8PIN Package
- RoHS Compliance

### SPECIFICATIONS

Frequency Range [LO&RF] : 0.002-50MHz  
 [IF] : DC-50MHz

Conversion Loss (LO Drive Level +7dBm)

	0.002 - 0.01MHz	0.01 - 20MHz	20 - 50MHz
Typ.	7.0dB	6.0dB	6.5dB
Max.	8.0dB	7.0dB	8.5dB

Isolation (min.)

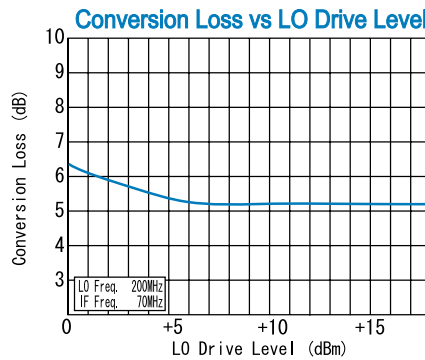
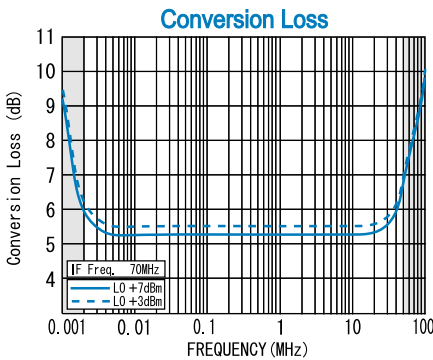
	0.002 - 0.01MHz	0.01 - 20MHz	20 - 50MHz
LO - RF	40dB	35dB	35dB
LO - IF	35dB	30dB	30dB
RF - IF	35dB	20dB	20dB

- Input IP3 @Center Band : +8dBm (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

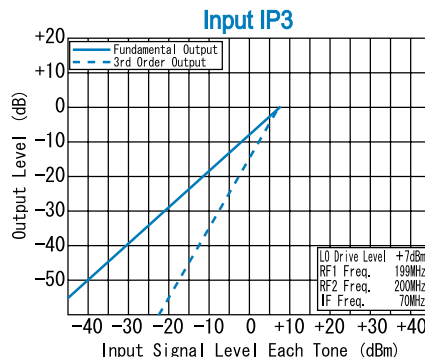
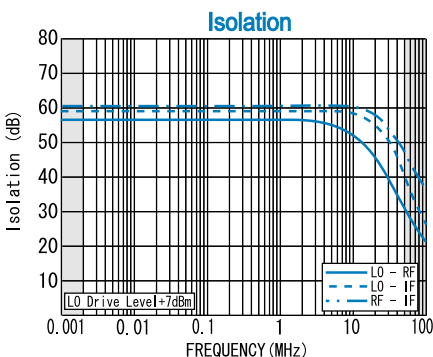
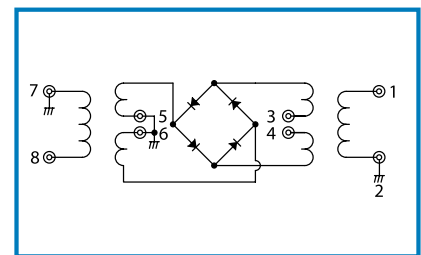
### HOW TO ORDER

Model Name  
**R&K-MDL5008P** 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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