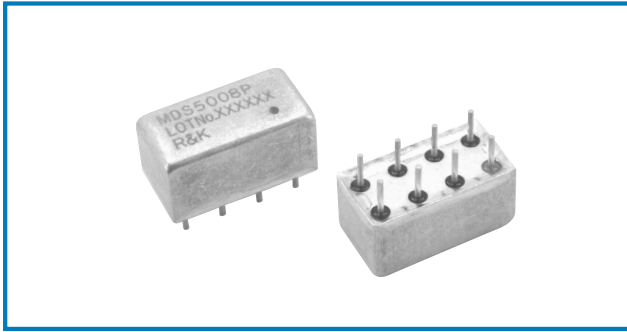


# DOUBLE BALANCED MIXER

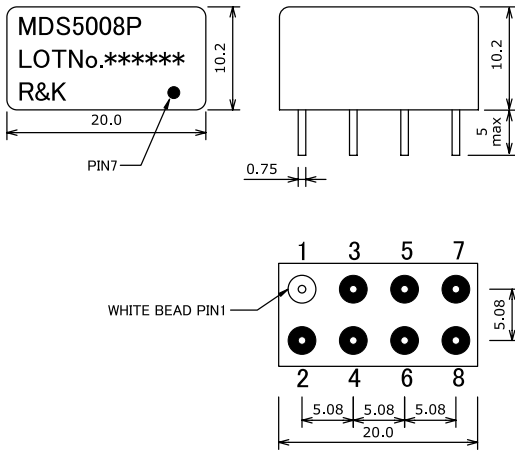


## R&K-MDS500



### OUTLINE DRAWING

※IN MILLIMETERS



- Frequency : DC-500MHz
- S-High LO Drive Level : +20dBm
- Low Cost / 8PIN Package
- RoHS Compliance

### SPECIFICATIONS

Frequency Range [LO&RF] : 1-500MHz

[IF] : DC-500MHz

Conversion Loss (LO Drive Level +20dBm)

	1 - 50MHz	50 - 200MHz	200 - 500MHz
Typ.	6.0dB	6.0dB	6.5dB
Max.	8.5dB	8.0dB	8.5dB

Isolation (min.)

	1 - 50MHz	50 - 200MHz	200 - 500MHz
LO - RF	45dB	30dB	20dB
LO - IF	35dB	30dB	25dB
RF - IF	30dB	20dB	10dB

Input IP3 @Center Band : +23dBm (typ.)

Input 1dB Comp. Point : +16dBm (typ.)

Impedance (All Ports) : 50Ω

Maximum RF Input Power : 500mW

Maximum Peak IF Current : 50mA

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

Storage Temperature : -40°C to +100°C

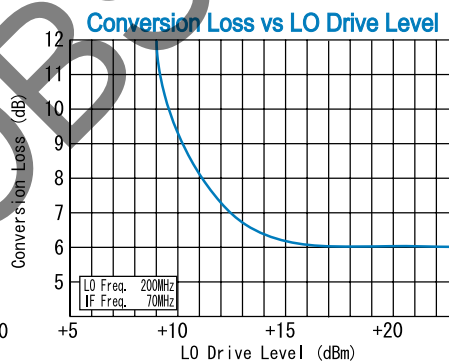
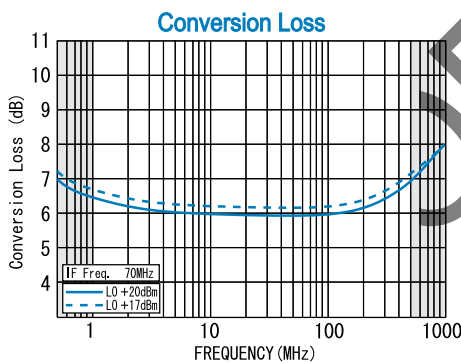
### HOW TO ORDER

Model Name

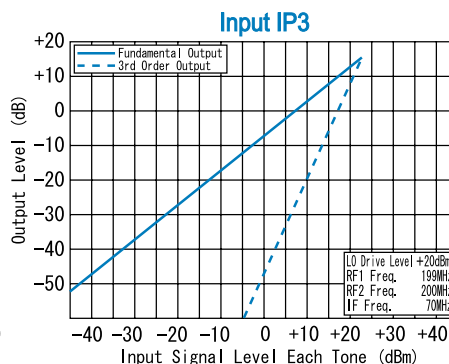
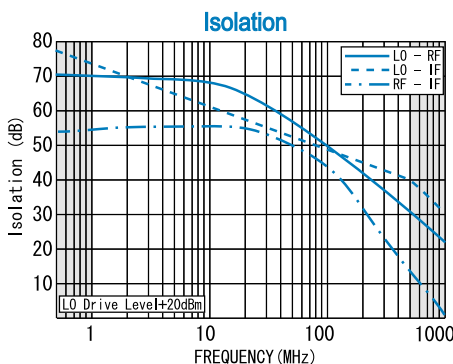
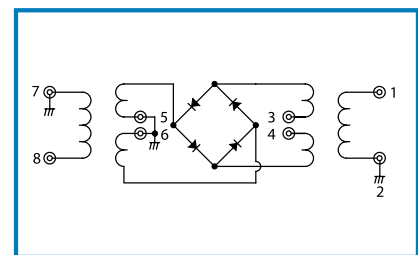
R&K-MDS5008P

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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