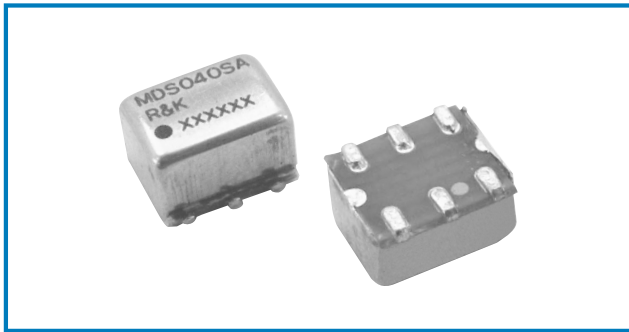


# DOUBLE BALANCED MIXER

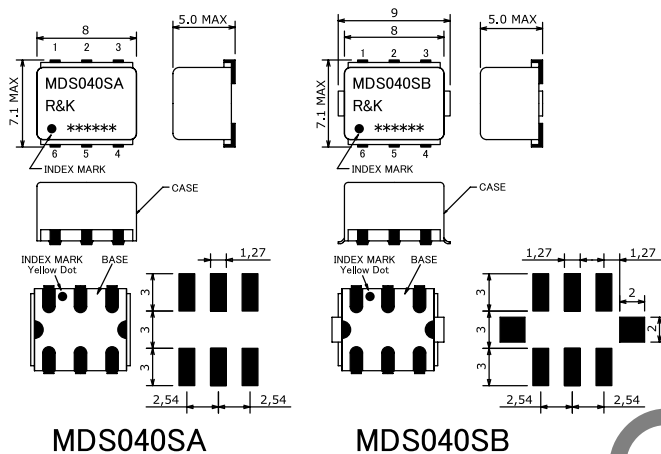


## R&K-MDS040



### OUTLINE DRAWING

※IN MILLIMETERS



- Frequency : DC-1500MHz
- S-High LO Drive Level : +20dBm
- Small & Low Cost / Surface Mount
- RoHS Compliance

### SPECIFICATIONS

Frequency Range [LO&RF]	: 5-1500MHz		
[IF]	: DC-1000MHz		
Conversion Loss (LO Drive Level +20dBm)			
	5 - 50MHz	50 - 1000MHz	1000 - 1500MHz
Typ.	7.5dB	7.0dB	7.5dB
Max.	10.0dB	9.0dB	9.5dB

### Isolation (min.)

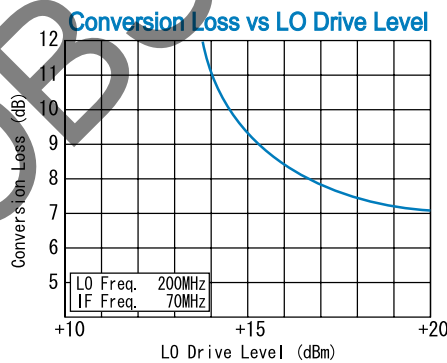
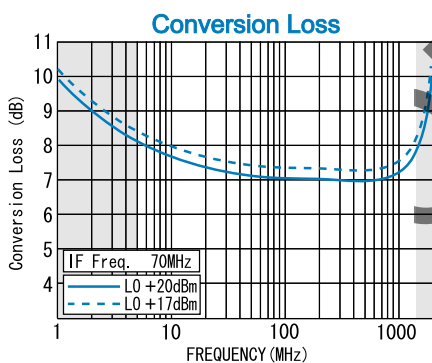
	5 - 50MHz	50 - 1000MHz	1000 - 1500MHz
LO - RF	45dB	25dB	25dB
LO - IF	35dB	20dB	15dB
RF - IF	30dB	15dB	10dB

- Input IP3 @Center Band : +22dBm (typ.)
- Input 1dB Comp. Point : +18dBm (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
- Max.Reflow Soldering Temp. : 260°C,10sec.
- Reflow Soldering Repeatability : 3 times
- Weight (Standard) : 0.46g (typ.)

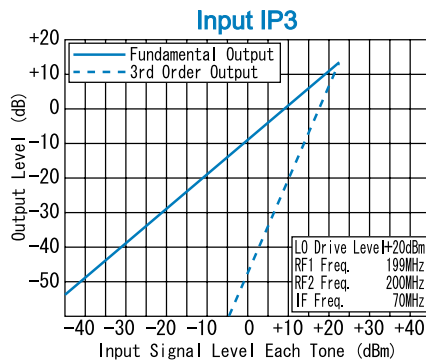
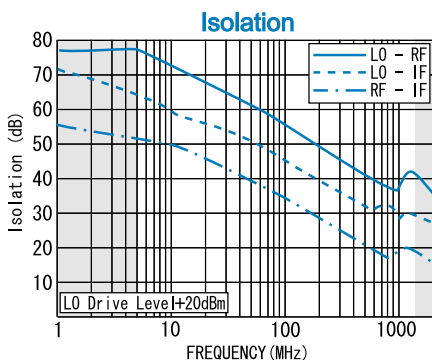
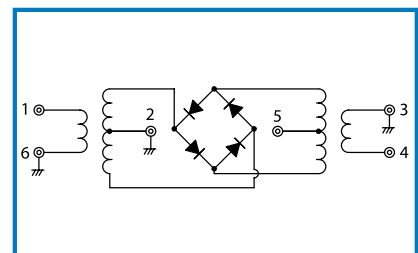
### HOW TO ORDER

- Model Name
- R&K-MDS040SA-BLK
- BLK=Antistatic bag
- TR1=Tape & Reel Package
- SA=Case Type of SA
- SB=Case Type of SB

### TYPICAL PERFORMANCE (Temp @+25°C)



### SCHEMATIC



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

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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