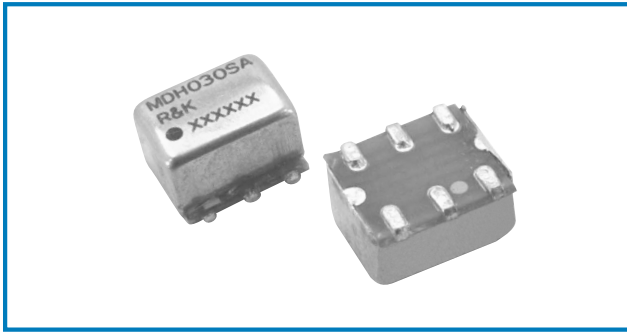


# DOUBLE BALANCED MIXER

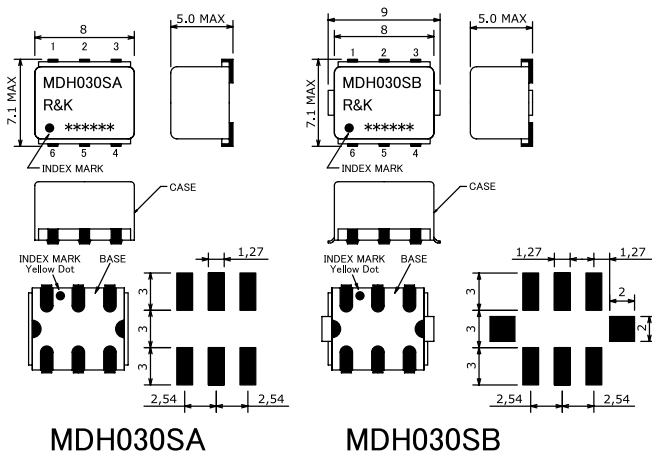


## R&K-MDH030



### OUTLINE DRAWING

※IN MILLIMETERS



- Frequency : DC-1000MHz
- High LO Drive Level : +15dBm
- Small & Low Cost / Surface Mount
- RoHS Compliance

### SPECIFICATIONS

Frequency Range [LO&RF]	: 0.1-1000MHz		
[IF]	: DC-1000MHz		
Conversion Loss (LO Drive Level +15dBm)	0.1 - 2MHz	2 - 500MHz	500 - 1000MHz
Typ.	6.0dB	5.5dB	7.0dB
Max.	8.5dB	7.5dB	9.0dB

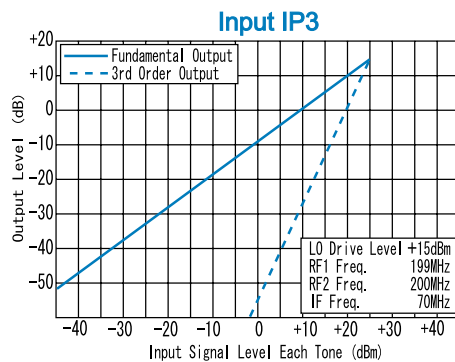
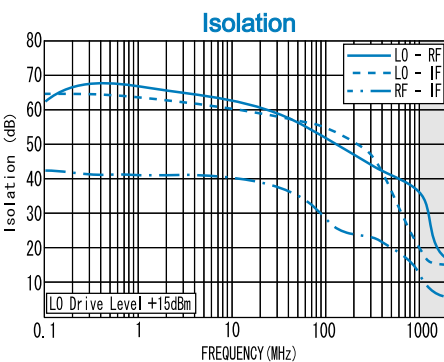
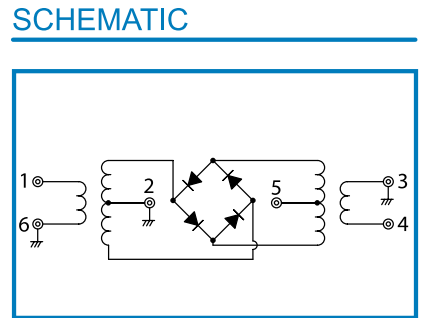
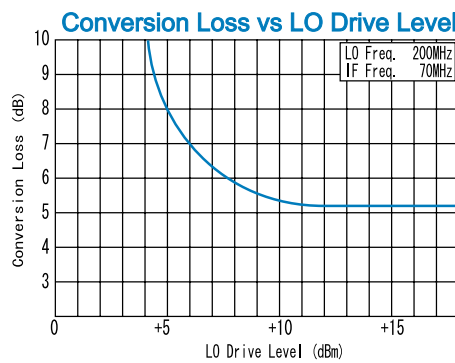
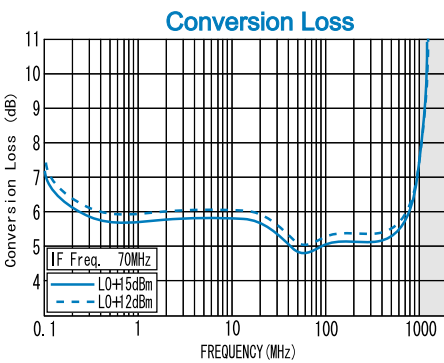
Isolation (min.)	0.1 - 2MHz	2 - 500MHz	500 - 1000MHz
LO - RF	45dB	25dB	25dB
LO - IF	45dB	25dB	15dB
RF - IF	30dB	15dB	7dB

- Input IP3 @Center Band : +25dBm (typ.)
- Input 1dB Comp. Point : +10dBm (typ.)
- Impedance (All Ports) : 50 Ω
- Maximum RF Input Power : 200mW
- 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) : 0.47g (typ.)

### HOW TO ORDER

Model Name  
**R&K-MDH030SA-BLK** BLK=Antistatic bag  
TR1=Tape & Reel Package  
SA=Case Type of SA  
SB=Case Type of SB

### TYPICAL PERFORMANCE (Temp @+25°C)



Function	Pin No.
LO	1
RF	4
I F	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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