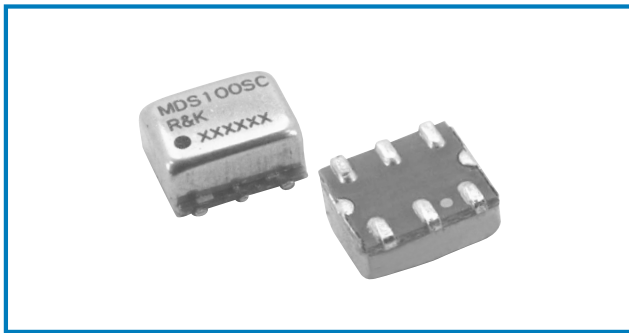


# DOUBLE BALANCED MIXER

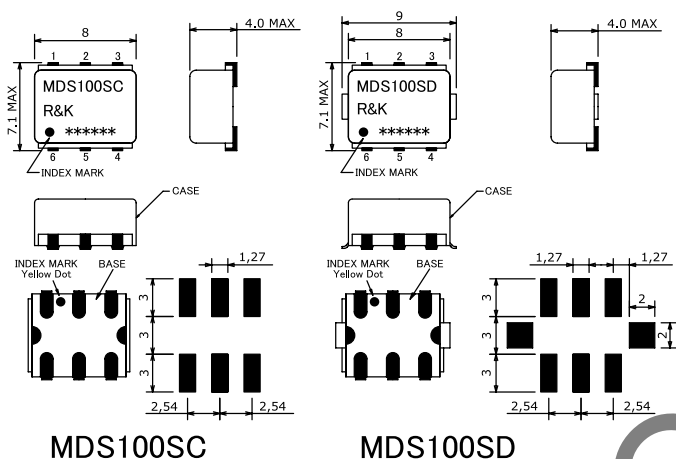


## R&K-MDS100



### OUTLINE DRAWING

※IN MILLIMETERS



- Frequency : DC-2400MHz
- S-High LO Drive Level : +20dBm
- Small & Low Cost / Surface Mount
- RoHS Compliance

### SPECIFICATIONS

Frequency Range [LO&RF] : 10-2400MHz  
[IF] : DC-300MHz

Conversion Loss (LO Drive Level +20dBm)

	10 - 100MHz	100 - 1000MHz	1000 - 2400MHz
Typ.	10.0dB	10.0dB	10.5dB
Max.	12.5dB	12.0dB	12.5dB

Isolation (min.)

	10 - 100MHz	100 - 1000MHz	1000 - 2400MHz
LO - RF	30dB	20dB	20dB
LO - IF	30dB	20dB	15dB
RF - IF	25dB	20dB	10dB

- Input IP3 @Center Band : +24dBm (typ.)
- Input 1dB Comp. Point : +19dBm (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) : 0.58g (typ.)

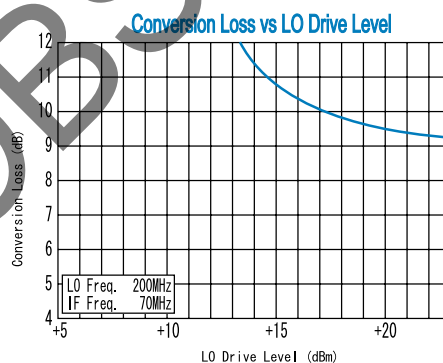
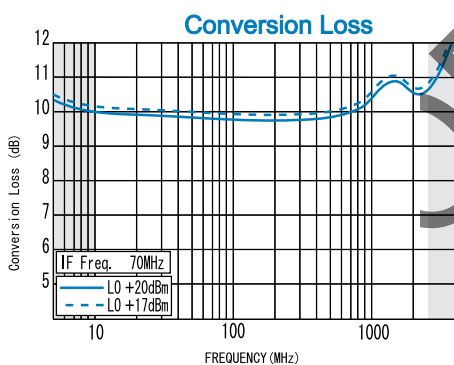
### HOW TO ORDER

Model Name  
R&K-MDS100SC-BLK

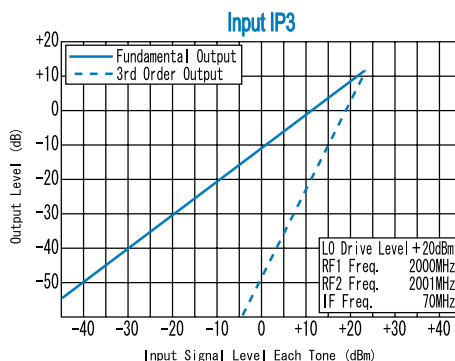
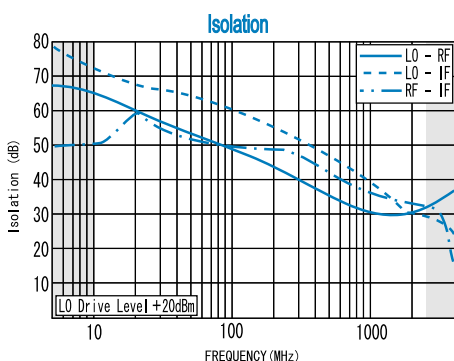
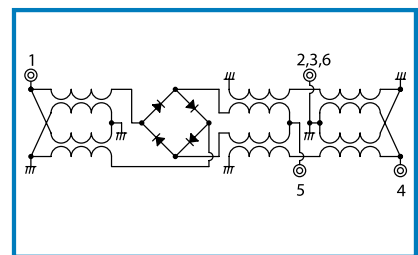
BLK=Antistatic bag  
TR1=Tape & Reel Package

SC=Case Type of SC  
SD=Case Type of SD

### TYPICAL PERFORMANCE (Temp @+25°C)



### SCHEMATIC



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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