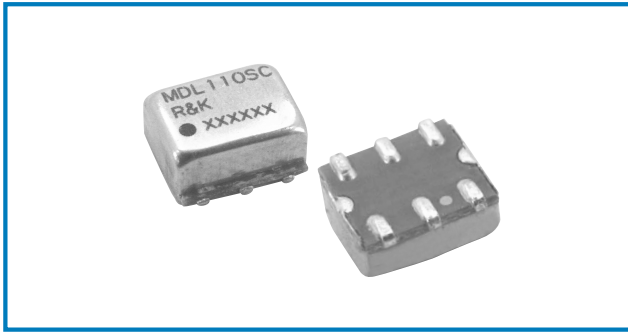


# DOUBLE BALANCED MIXER

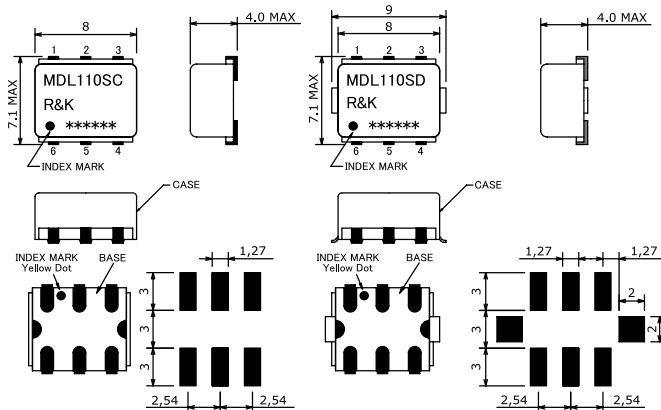


## R&K-MDL110



### OUTLINE DRAWING

※ IN MILLIMETERS



MDL110SC

MDL110SD

- Frequency : DC-2600MHz
- Low LO Drive Level : +7dBm
- Small & Low Cost / Surface Mount
- RoHS Compliance

### SPECIFICATIONS

Frequency Range [LO&RF] : 1600-2600MHz  
[IF] : DC-1000MHz

Conversion Loss (LO Drive Level +7dBm)

	1600 - 1800MHz	1800 - 2200MHz	2200 - 2600MHz
Typ.	7.5dB	8.0dB	8.0dB
Max.	10.0dB	10.0dB	10.0dB

Isolation (min.)

	1600 - 1800MHz	1800 - 2200MHz	2200 - 2600MHz
LO - RF	15dB	15dB	15dB
LO - IF	10dB	10dB	10dB
RF - IF	5dB	5dB	5dB

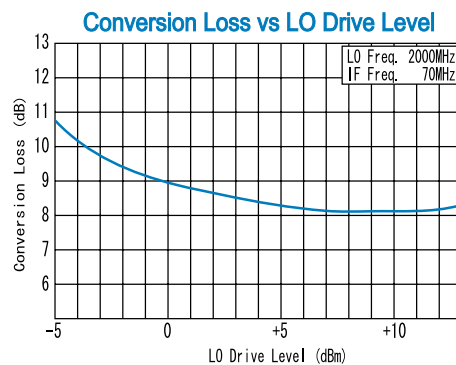
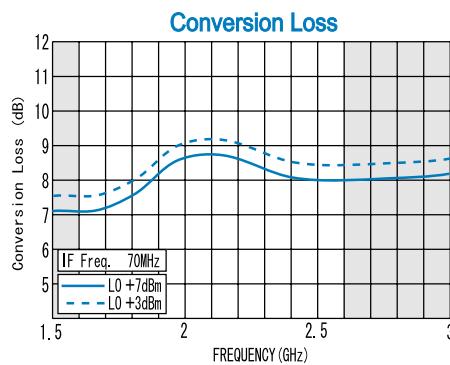
- Input IP3 @Center Band : +11dBm (typ.)
- Input 1dB Comp. Point : +3dBm (typ.)
- Impedance (All Ports) : 50Ω
- Maximum RF Input Power : 50mW
- Maximum Peak IF Current : 50mA
- Operating Temperature : -40°C to +85°C
- Storage Temperature : -40°C to +100°C
- Max.Reflow Soldering Temp. : 260°C, 10sec.
- Reflow Soldering Repeatability : 3 times
- Weight (Standard) : 0.46g (typ.)

### HOW TO ORDER

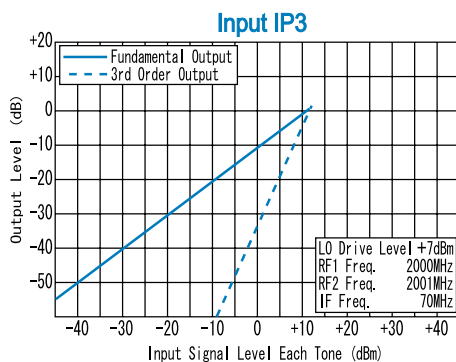
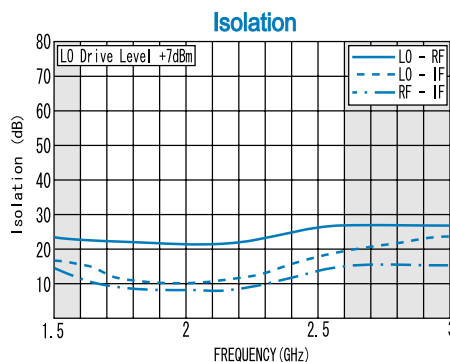
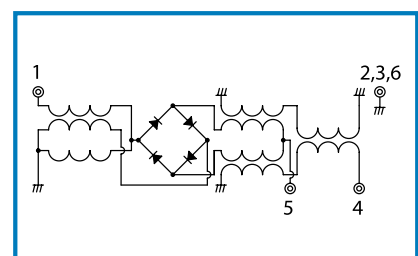
Model Name  
R&K-MDL110SC-BLK

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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