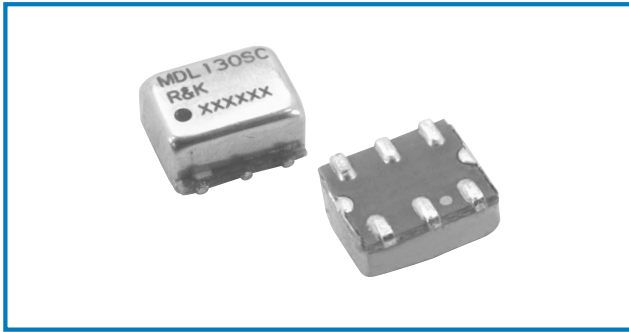


DOUBLE BALANCED MIXER

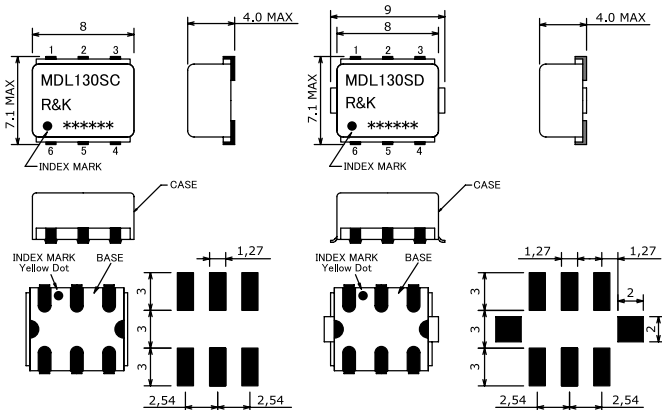


R&K-MDL130



OUTLINE DRAWING

※ IN MILLIMETERS



MDL130SC

MDL130SD

- Frequency : DC-2400MHz
- Low LO Drive Level : +7dBm
- Small & Low Cost / Surface Mount
- RoHS Compliance

SPECIFICATIONS

Frequency Range [LO&RF] : 1000-2400MHz
 [IF] : DC-800MHz

Conversion Loss (LO Drive Level +7dBm)

	1000 - 1300MHz	1300 - 2200MHz	2200 - 2400MHz
Typ.	6.0dB	6.5dB	7.5dB
Max.	8.5dB	8.5dB	9.5dB

Isolation (min.)

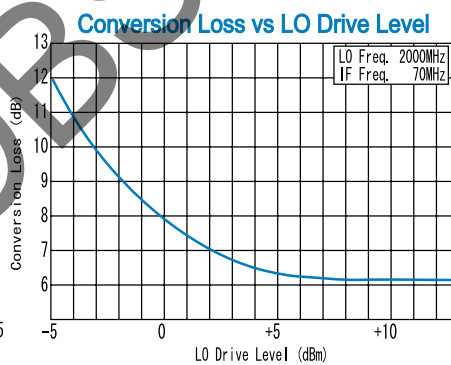
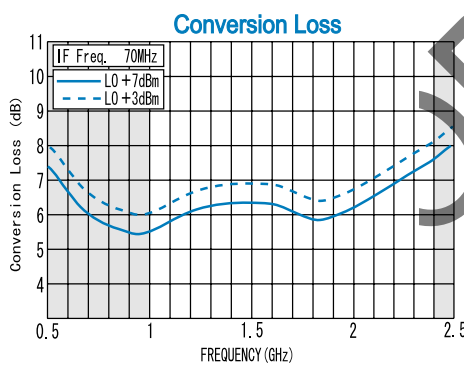
	1000 - 1300MHz	1300 - 2200MHz	2200 - 2400MHz
LO - RF	30dB	25dB	25dB
LO - IF	20dB	20dB	25dB
RF - IF	10dB	10dB	15dB

- Input IP3 @Center Band : +7dBm (typ.)
- Input 1dB Comp. Point : +2dBm (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.)

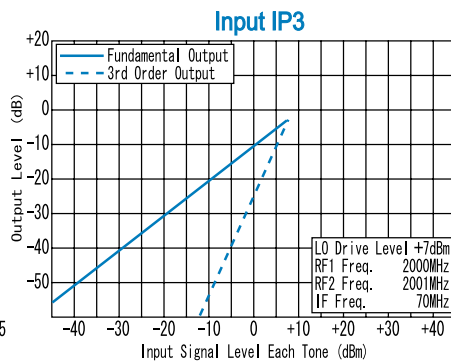
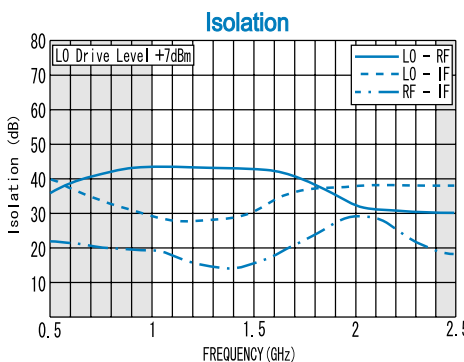
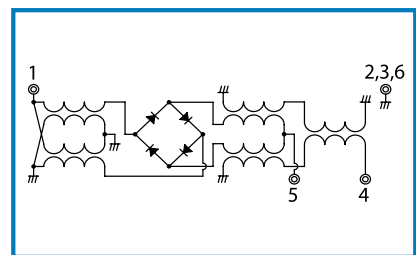
HOW TO ORDER

Model Name
R&K-MDL130SC-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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