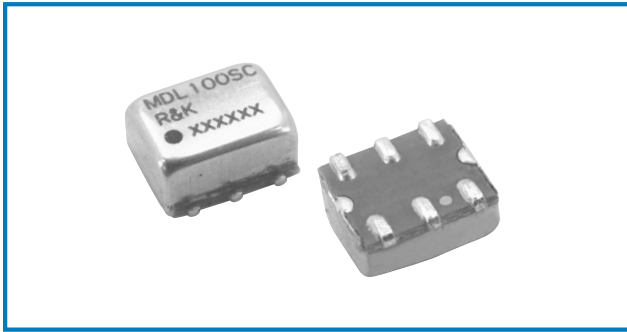


DOUBLE BALANCED MIXER

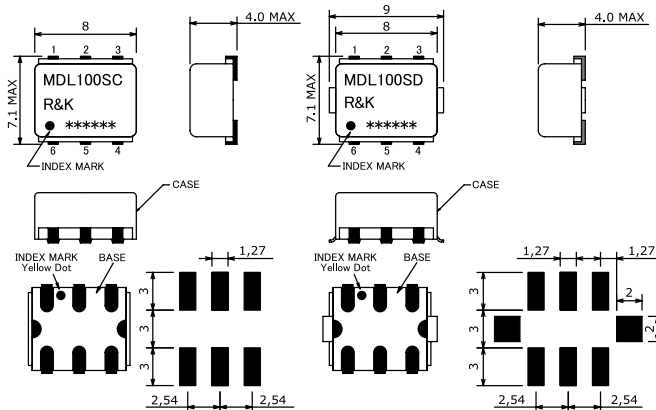


R&K-MDL100



OUTLINE DRAWING

※IN MILLIMETERS



MDL100SC

MDL100SD

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

SPECIFICATIONS

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

[IF] : DC-300MHz

Conversion Loss (LO Drive Level +7dBm)

	10 - 100MHz	100 - 1000MHz	1000 - 2400MHz
Typ.	10.5dB	10.0dB	11.0dB
Max.	13.0dB	12.0dB	13.0dB

Isolation (min.)

	10 - 100MHz	100 - 1000MHz	1000 - 2400MHz
LO - RF	35dB	20dB	20dB
LO - IF	35dB	20dB	15dB
RF - IF	25dB	15dB	10dB

Input IP3 @Center Band : +18dBm (typ.)
 Input 1dB Comp. Point : +6dBm (typ.)
 Impedance (All Ports) : 50 Ω
 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) : 0.58g (typ.)

HOW TO ORDER

Model Name

R&K-MDL100SC-BLK

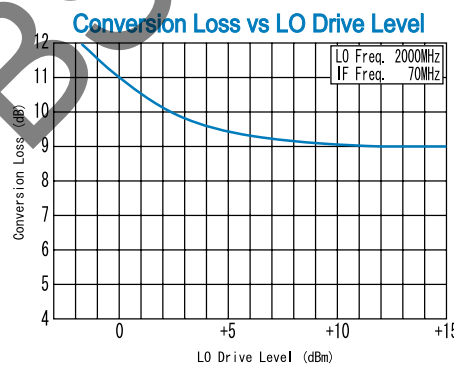
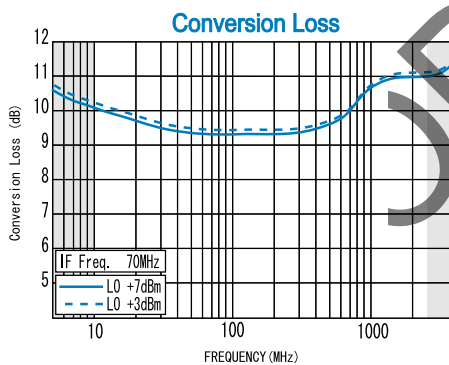
BLK=Antistatic bag

TR1=Tape & Reel Package

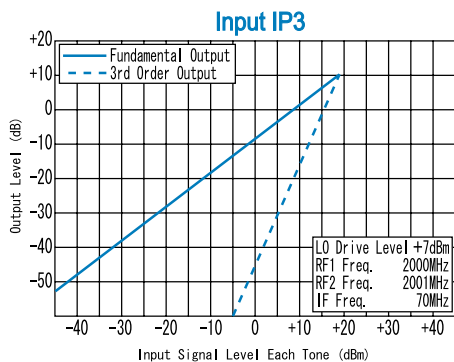
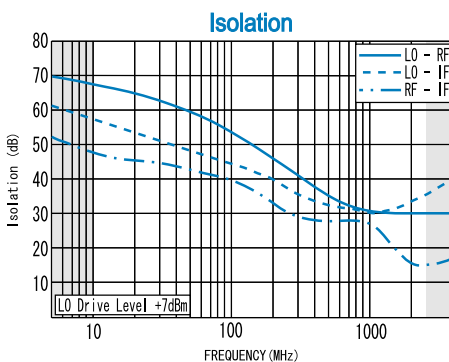
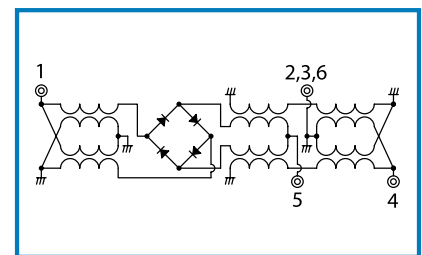
SC=Case Type of SC

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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