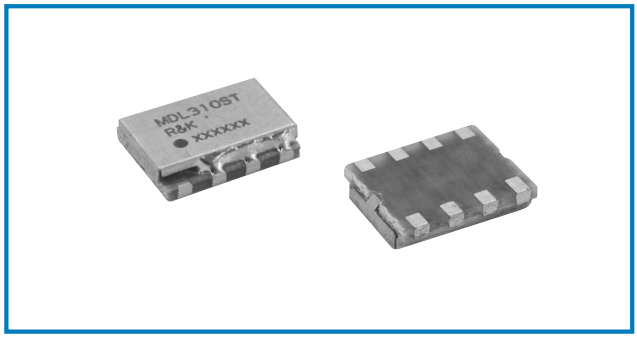
R&K-MDL310



- Frequency :DC-6000MHz
- Low LO Drive Level :+7dBm
- Small & Low Cost / Surface Mount
- RoHS Compliance

SPECIFICATIONS

Frequency Range [LO&RF] : 2000-6000MHz
[IF] : DC-2500MHz

Conversion Loss (LO Drive Level +7dBm)

	2000 - 3500MHz	3500 - 5000MHz	5000 - 6000MHz
Typ.	6.0dB	7.5dB	7.5dB
Max.	8.5dB	9.5dB	9.5dB

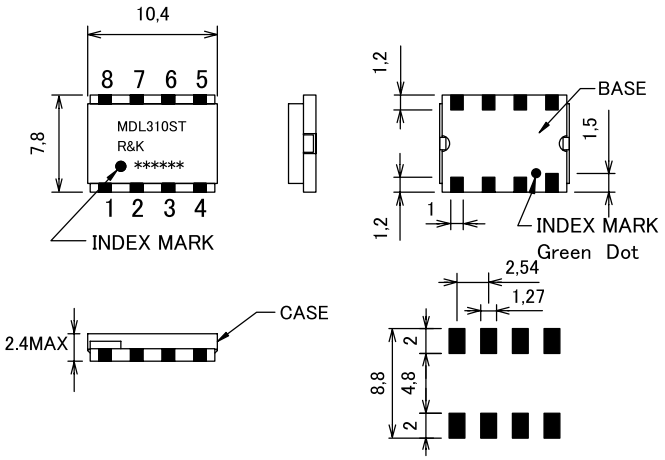
Isolation (min.)

	2000 - 3500MHz	3500 - 5000MHz	5000 - 6000MHz
LO - RF	15dB	15dB	15dB
LO - IF	5dB	5dB	15dB
RF - IF	5dB	5dB	15dB

Input IP3 @Center Band	: +10dBm (typ.)
Input 1dB Comp. Point	: + 0dBm (typ.)
Impedance (All Ports)	: 50Ω
Maximum RF Input Power	: 50mW
Maximum Peak IF Current	: 50mA
Operating Temperature	: −40℃ to + 85℃
Storage Temperature	: −40℃ to +100℃
Max.Reflow Soldering Temp.	: 260℃,10sec.
Reflow Soldering Repeatability	: 3 times
Weight (Standard)	: 0.3g (typ.)

OUTLINE DRAWING

※IN MILLIMETERS



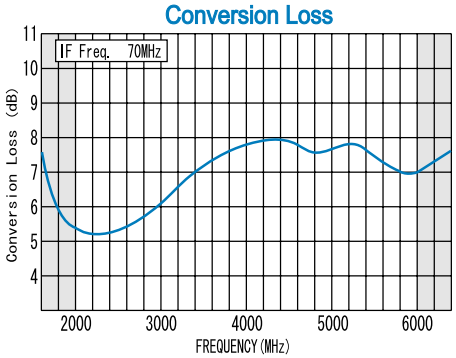
HOW TO ORDER

Model Name
R&K-MDL310ST-BLK

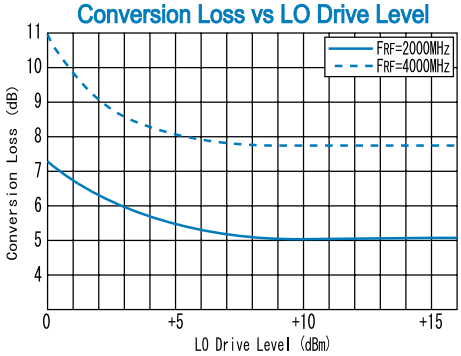
BLK=Antistatic bag
TR2=Tape & Reel Package
ST=Case Type of ST

TYPICAL PERFORMANCE (Temp @+25℃)

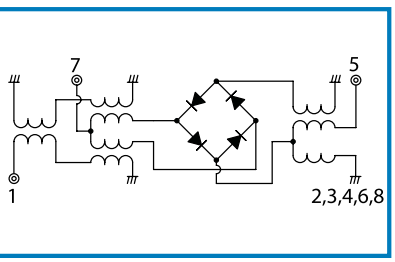
Conversion Loss



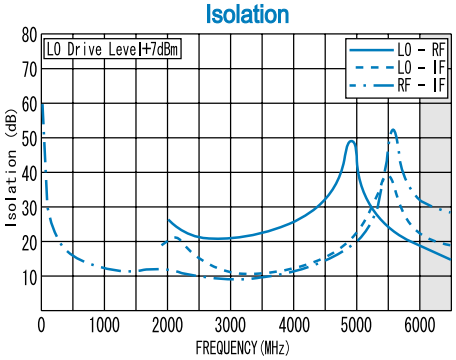
Conversion Loss vs LO Drive Level



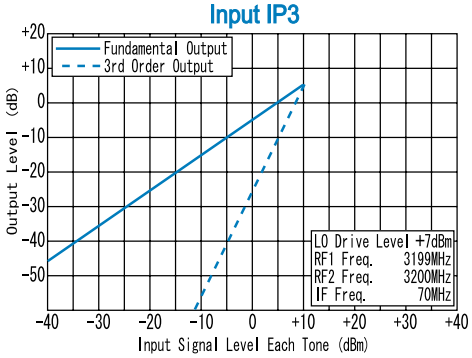
SCHEMATIC



Isolation



Input IP3



Function	Pin No.
LO	1
RF	5
IF	7
GND	2,3,4,6,8

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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