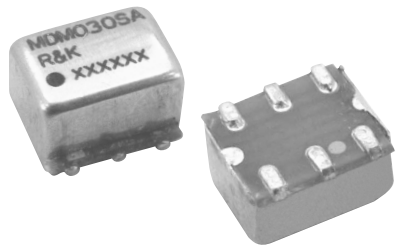
R&K-MDM030



- Frequency :DC-1000MHz
- Mid LO Drive Level :+10dBm
- Small & Low Cost / Surface Mount
- RoHS Compliance

SPECIFICATIONS

Frequency Range [LO&RF] : 0.1-1000MHz
[IF] : DC-1000MHz

Conversion Loss (LO Drive Level +10dBm)

	0.1 - 2MHz	2 - 500MHz	500 - 1000MHz
Typ.	6.5dB	6.0dB	7.0dB
Max.	9.0dB	8.0dB	9.0dB

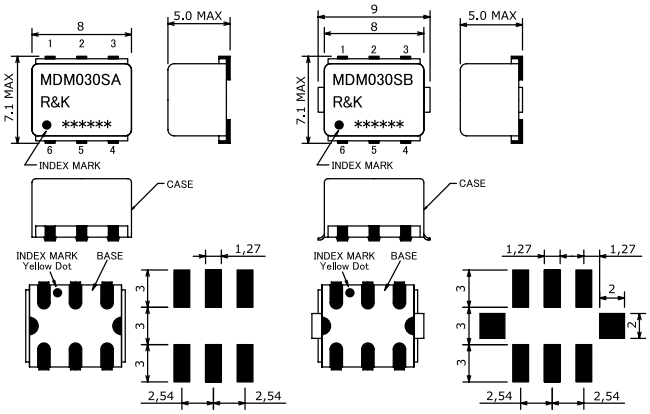
Isolation (min.)

	0.1 - 2MHz	2 - 500MHz	500 - 1000MHz
LO - RF	45dB	30dB	20dB
LO - IF	50dB	20dB	15dB
RF - IF	35dB	15dB	10dB

Input IP3 @Center Band	: +22dBm (typ.)
Input 1dB Comp. Point	: + 6dBm (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)	: 0.47g (typ.)

OUTLINE DRAWING

※IN MILLIMETERS



MDM030SA MDM030SB

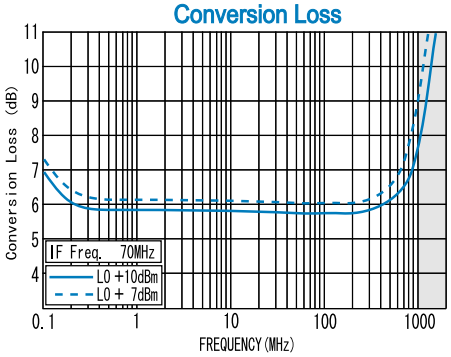
HOW TO ORDER

Model Name
R&K-MDM030SA-BLK

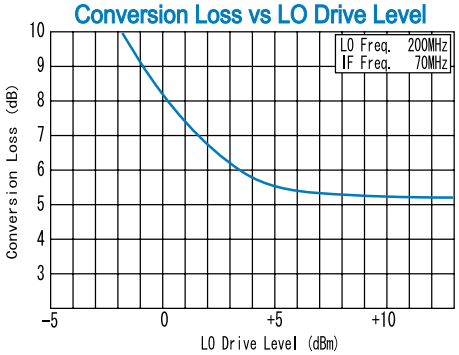
- BLK=Antistatic bag
- TR1=Tape & Reel Package
- SA=Case Type of SA
- SB=Case Type of SB

TYPICAL PERFORMANCE (Temp @+25℃)

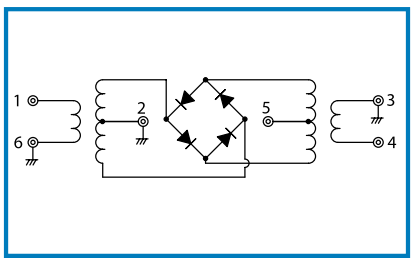
Conversion Loss



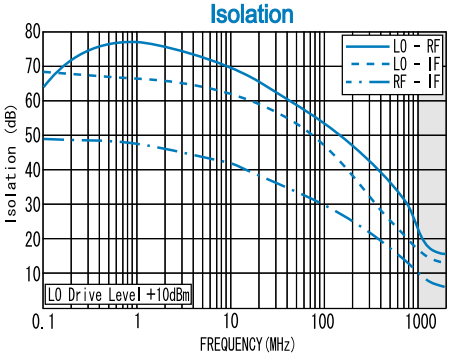
Conversion Loss vs LO Drive Level



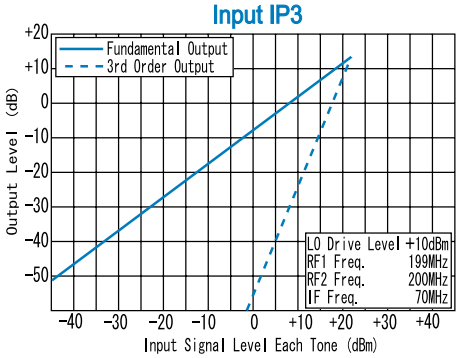
SCHEMATIC



Isolation



Input IP3



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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