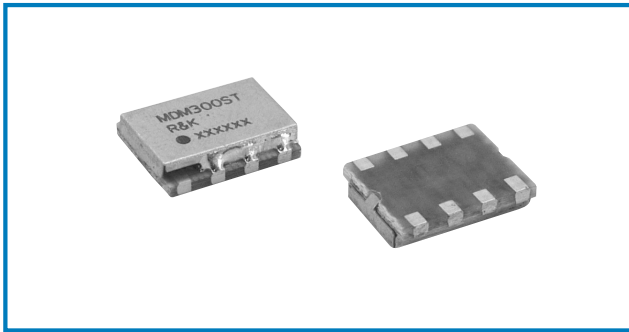


# DOUBLE BALANCED MIXER

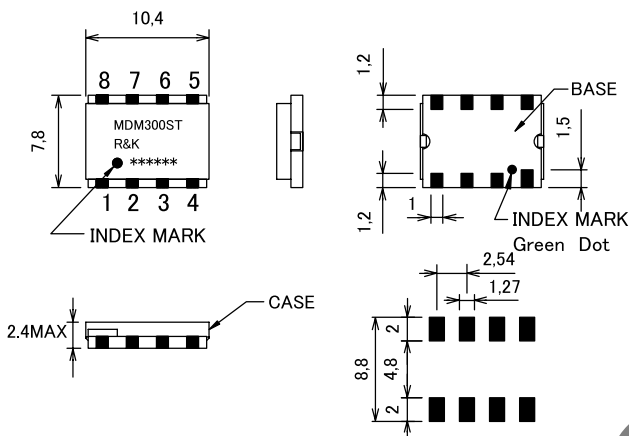


## R&K-MDM300



### OUTLINE DRAWING

※ IN MILLIMETERS



- Frequency : DC-5000MHz
- Mid LO Drive Level : +10dBm
- Small & Low Cost / Surface Mount
- RoHS Compliance

### SPECIFICATIONS

Frequency Range [LO&RF] : 2000-5000MHz  
 [IF] : DC-2500MHz

Conversion Loss (LO Drive Level +10dBm)

	2000 - 3000MHz	3000 - 4000MHz	4000 - 5000MHz
Typ.	6.0dB	7.0dB	7.5dB
Max.	8.5dB	9.0dB	9.5dB

Isolation (min.)

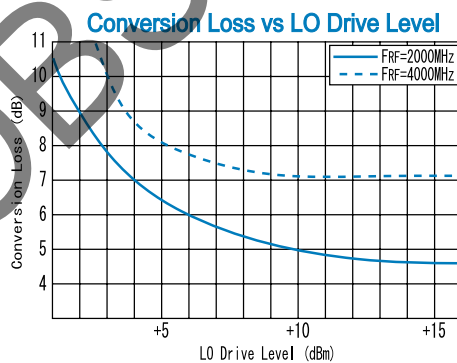
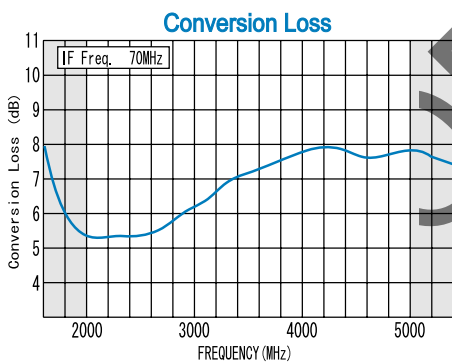
	2000 - 3000MHz	3000 - 4000MHz	4000 - 5000MHz
LO - RF	15dB	15dB	20dB
LO - IF	10dB	5dB	10dB
RF - IF	5dB	5dB	10dB

- Input IP3 @Center Band : +15dBm (typ.)
- Input 1dB Comp. Point : + 3dBm (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) : 0.3g (typ.)

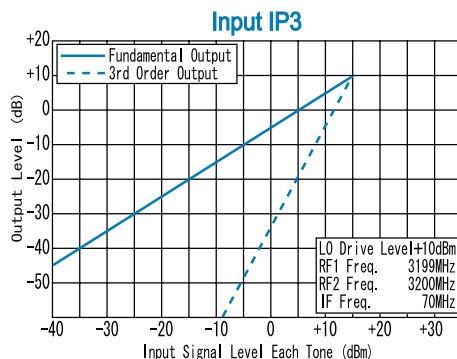
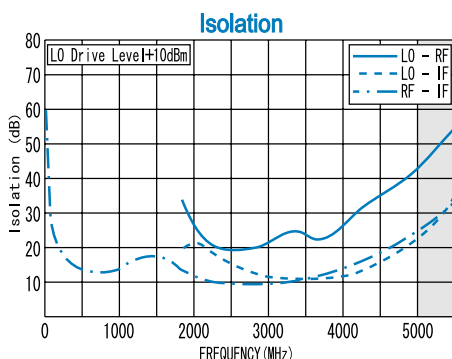
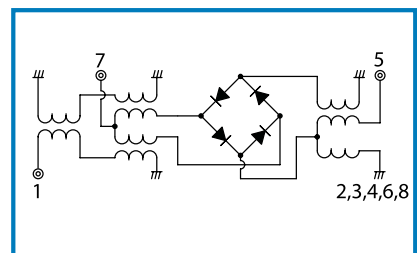
### HOW TO ORDER

Model Name  
**R&K-MDM300ST-BLK** BLK=Antistatic bag  
TR2=Tape & Reel Package  
ST=Case Type of ST

### TYPICAL PERFORMANCE (Temp @+25°C)



### SCHEMATIC



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.

## R&K Company Limited

721-1 Maeda, Fuji-City, Shizuoka-Pref. 416-8577 Japan  
 Tel: +81-545-31-2600 E-mail: info@rk.co.jp  
 Fax: +81-545-31-1600 URL: http://rk-microwave.com