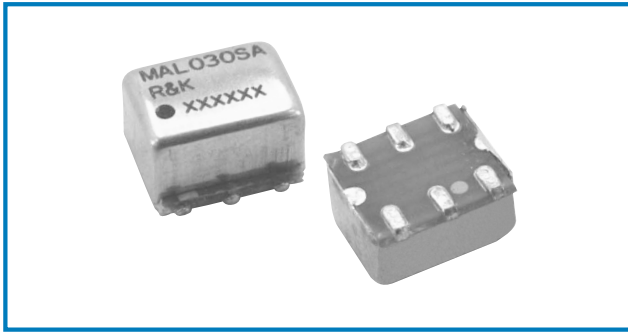


# DOUBLE BALANCED MIXER

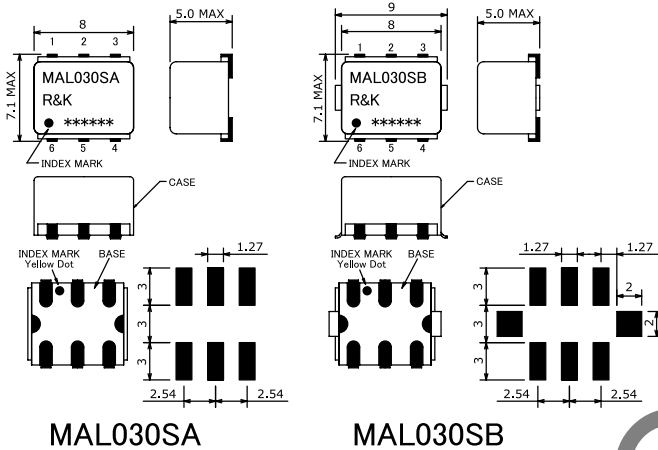


## R&K-MAL030



### OUTLINE DRAWING

※IN MILLIMETERS



- Frequency : DC-1000MHz
- Low LO Drive Level : +7dBm
- Small & Low Cost / Surface Mount
- RoHS Compliance

### SPECIFICATIONS

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

Conversion Loss (LO Drive Level +7dBm)

	0.1 - 2MHz	2 - 500MHz	500 - 1000MHz
Typ.	7.0dB	5.5dB	7.0dB
Max.	9.5dB	7.5dB	9.0dB

Isolation (min.)

	0.1 - 2MHz	2 - 500MHz	500 - 1000MHz
LO - RF	50dB	30dB	20dB
LO - IF	40dB	20dB	10dB
RF - IF	35dB	15dB	8dB

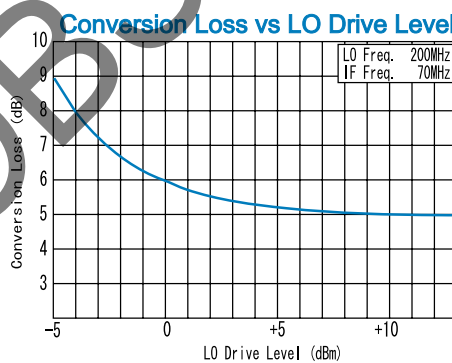
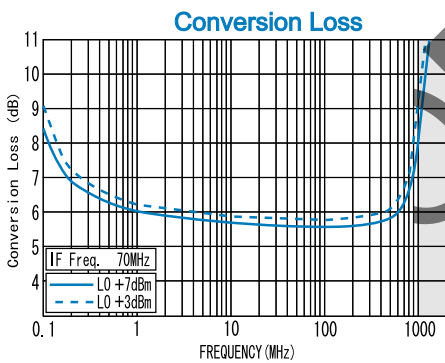
- Input IP3 @Center Band : +15dBm (typ.)
- Input 1dB Comp. Point : +2dBm (typ.)
- Impedance (All Ports) : 50Ω
- Maximum RF Input Power : 50mW
- Maximum Peak IF Current : 50mA
- Operating Temperature : -40°C to +85°C
- Storage Temperature : -40°C to +100°C
- Max.Reflow Soldering Temp. : 260°C, 10sec.
- Reflow Soldering Repeatability : 3 times
- Weight (Standard) : 0.47g (typ.)

### HOW TO ORDER

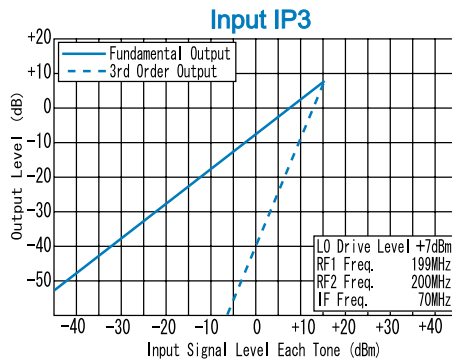
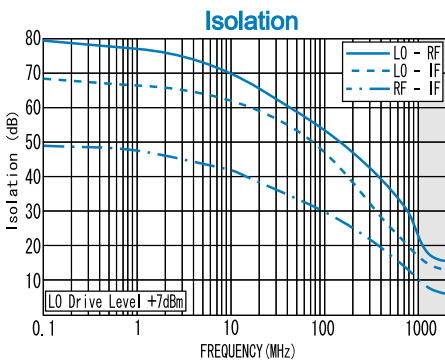
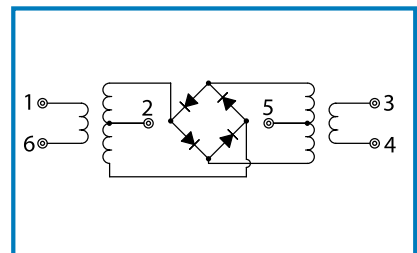
Model Name  
**R&K-MAL030SA-BLK**

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

### TYPICAL PERFORMANCE (Temp @+25°C)



### SCHEMATIC



Function	Pin No.	Function	Pin No.
LO+	1	LO-	6
RF+	4	RF-	3
IF+	2	IF-	5

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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