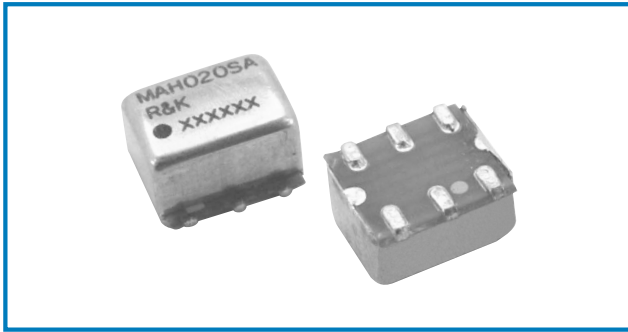


# DOUBLE BALANCED MIXER

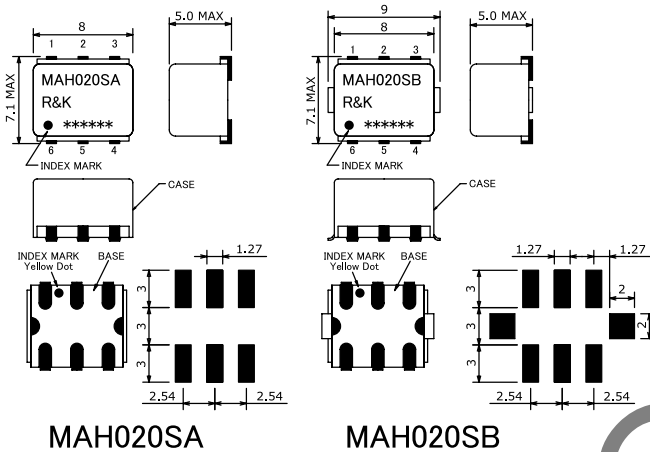


## R&K-MAH020



### OUTLINE DRAWING

※IN MILLIMETERS



- Frequency : DC-800MHz
- High LO Drive Level : +15dBm
- Small & Low Cost / Surface Mount
- RoHS Compliance

### SPECIFICATIONS

Frequency Range [LO&RF] : 1-800MHz  
 [IF] : DC-500MHz  
 Conversion Loss (LO Drive Level +15dBm)

	1 - 10MHz	10 - 200MHz	200 - 800MHz
Typ.	7.0dB	6.0dB	6.5dB
Max.	9.5dB	8.0dB	8.5dB

### Isolation (min.)

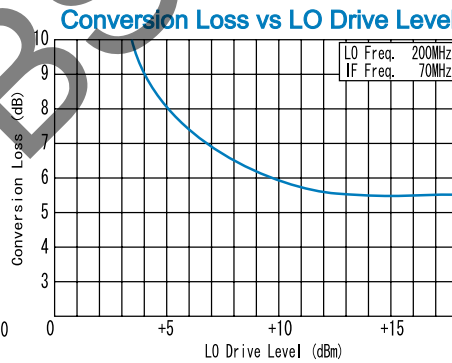
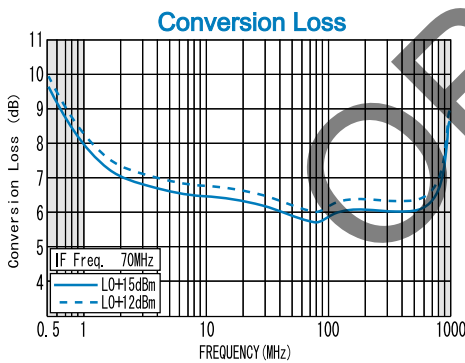
	1 - 10MHz	10 - 200MHz	200 - 800MHz
LO - RF	45dB	25dB	20dB
LO - IF	35dB	25dB	15dB
RF - IF	30dB	20dB	10dB

- Input IP3 @Center Band : +26dBm (typ.)
- Input 1dB Comp. Point : +10dBm (typ.)
- Impedance (All Ports) : 50 Ω
- Maximum RF Input Power : 200mW
- 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.)

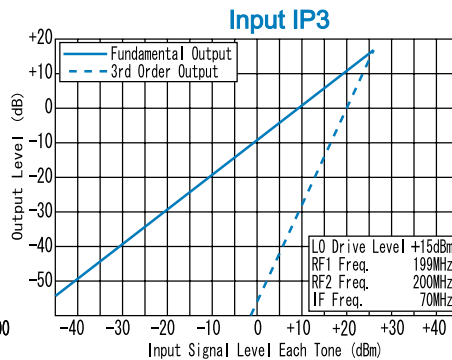
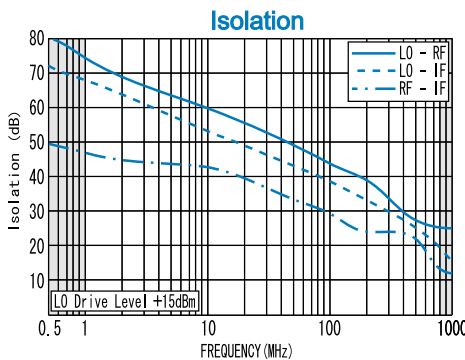
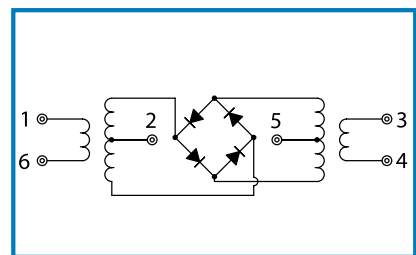
### HOW TO ORDER

Model Name  
**R&K-MAH020SA-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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