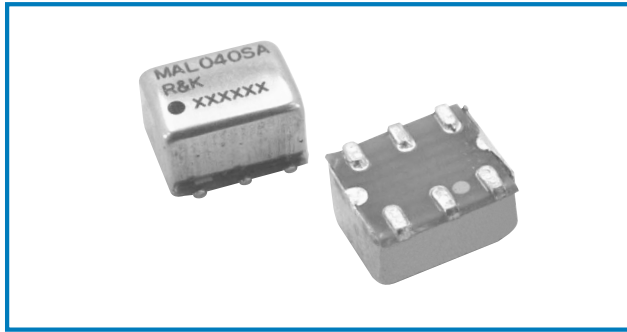


DOUBLE BALANCED MIXER

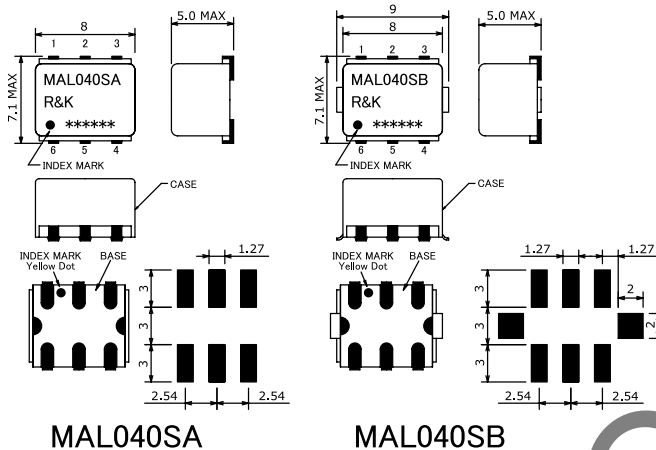


R&K-MAL040



OUTLINE DRAWING

※IN MILLIMETERS



- Frequency : DC-1500MHz
- Low LO Drive Level : +7dBm
- Small & Low Cost / Surface Mount
- RoHS Compliance

SPECIFICATIONS

Frequency Range [LO&RF] : 5-1500MHz
[IF] : DC-1000MHz
Conversion Loss (LO Drive Level +7dBm)

	5 - 50MHz	50 - 1000MHz	1000 - 1500MHz
Typ.	8.0dB	6.5dB	7.5dB
Max.	10.5dB	8.5dB	9.5dB

Isolation (min.)

	5 - 50MHz	50 - 1000MHz	1000 - 1500MHz
LO - RF	45dB	25dB	20dB
LO - IF	40dB	20dB	15dB
RF - IF	30dB	15dB	10dB

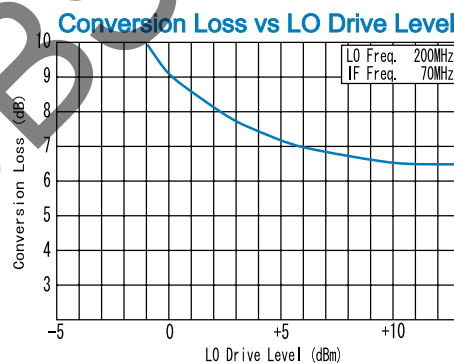
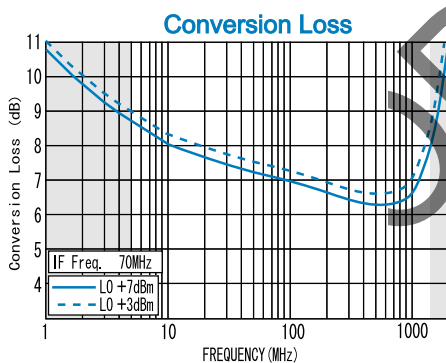
Input IP3 @Center Band : +18dBm (typ.)
Input 1dB Comp. Point : +4dBm (typ.)
Impedance (All Ports) : 50Ω
Maximum RF Input Power : 50mW
Maximum Peak IF Current : 50mA
Operating Temperature : -40°C to +85°C
Storage Temperature : -40°C to +100°C
Max.Reflow Soldering Temp. : 260°C, 10sec.
Reflow Soldering Repeatability : 3 times
Weight (Standard) : 0.46g (typ.)

HOW TO ORDER

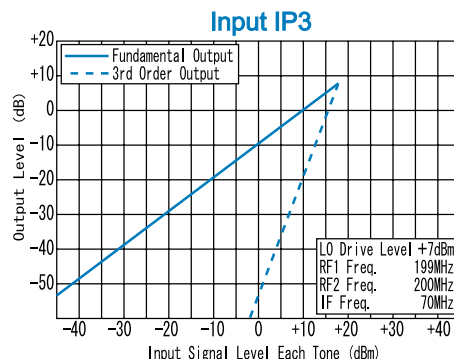
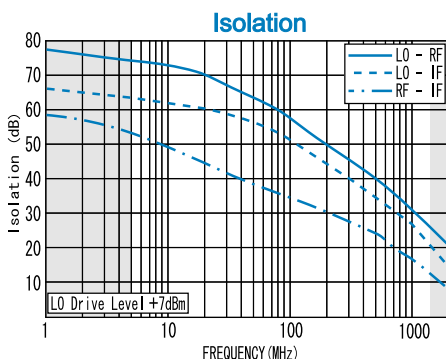
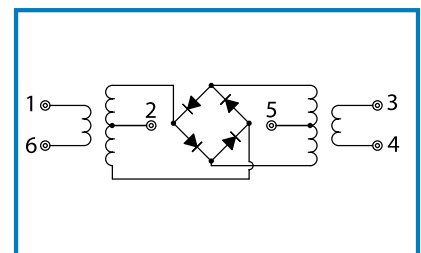
Model Name
R&K-MAL040SA-BLK

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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