# DOUBLE BALANCED MIXER

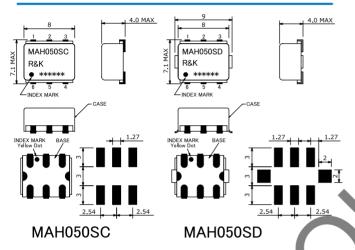


### **R&K-MAH050**



#### **OUTLINE DRAWING**

#### **XIN MILLIMETERS**



Frequency High LO Drive Level : DC-2000MHz

: +15dBm

Small & Low Cost / Surface Mount

■ RoHS Compliance

#### **SPECIFICATIONS**

Frequency Range [LO&RF] : 500-2000MHz

: DC-1000MHz [IF]

(LO Drive Level +15dBm)

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	500 - 1000MHz	1000 - 1600MHz	1600 - 2000MHz
Typ.	7.0dB	6.5dB	8.5dB
Max.	9.5dB	8.5dB	10.5dB

#### Isolation (min.)

	500 - 1000MHz	1000 - 1600MHz	1600 - 2000MHz
LO - RF	20dB	20dB	20dB
LO - IF	25dB	20dB	15dB
RF - IF	20dB	15dB	10dB

Input IP3 @Center Band : +13dBm (typ.) Input 1dB Comp. Point + 5dBm (typ.) Impedance (All Ports) : 50 Ω

Maximum RF Input Power : 200mW Maximum Peak IF Current : 50mA

**Operating Temperature**  $-40^{\circ}$ C to  $+85^{\circ}$ C Storage Temperature -40°C to +100°C Max.Reflow Soldering Temp. : 260°C,10sec. Reflow Soldering Repeatability : 3 times Weight (Standard) : 0.42g (typ.)

**SCHEMATIC** 

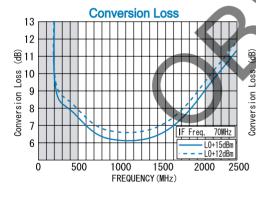
#### **HOW TO ORDER**

Model Name R&K-MAH050SC-BLK

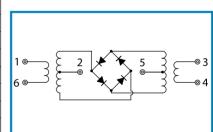
BLK=Antistatic bag TR1=Tape & Reel Package

SC=Case Type of SC SD=Case Type of <u>SD</u>

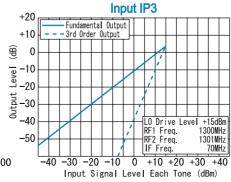
### TYPICAL PERFORMANCE (Temp @+25°C







#### Isolation 70 60 <sup>⊕</sup>50 100 40 30 30 30 20 10 Ō 2500 500 1000 1500 FREQUENCY (MHz



Function	Pin No.	Function	Pin No.
LO+	1	LO-	6
RF+	4	RF-	3
I F+	2	I F-	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.

## R&K Company Limited

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