# DOUBLE BALANCED MIXER

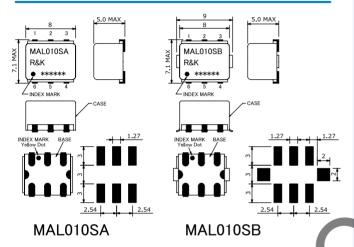


## R&K-MAL010



### **OUTLINE DRAWING**

**※IN MILLIMETERS** 



■ Frequency : DC-500MHz
■ Low LO Drive Level : +7dBm

■ Small & Low Cost / Surface Mount

■ RoHS Compliance

### **SPECIFICATIONS**

Frequency Range [LO&RF] : 0.5-500MHz [IF] : DC-500MHz

Conversion Loss (LO Drive Level +7dBm)

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	0.5 - 1MHz	1 - 300MHz	300 - 500MHz
Тур.	6.5dB	6.0dB	6.0dB
Max.	9.0dB	8.0dB	8.0dB

### Isolation (min.)

	0.5 - 1MHz	1 - 300MHz	300 - 500MHz	
LO - RF	50dB	30dB	30dB	
LO - IF	40dB	30dB	25dB	
RF - IF	35dB	20dB	15dB	

Input IP3 @Center Band : +16dBm (typ.)
Input 1dB Comp. Point : + 3dBm (typ.)

 $\begin{array}{lll} \text{Impedance (All Ports)} & : 50 \, \Omega \\ \text{Maximum RF Input Power} & : 50 \text{mW} \\ \text{Maximum Peak IF Current} & : 50 \text{mA} \\ \end{array}$ 

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 : 0.47g (typ.)

**SCHEMATIC** 

### HOW TO ORDER

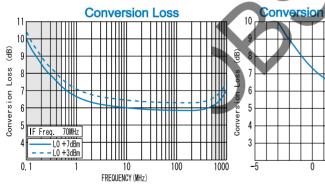
Model Name

R&K-MAL010SA-BLK

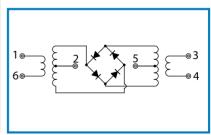
BLK=Antistatic bag
TR1=Tape & Reel Package

SA=Case Type of <u>SA</u> SB=Case Type of <u>SB</u>

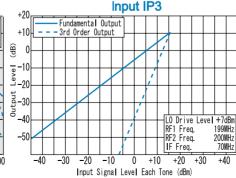
### TYPICAL PERFORMANCE (Temp @ 25°C)







# | Solation | Solation



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

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