# DOUBLE BALANCED MIXER

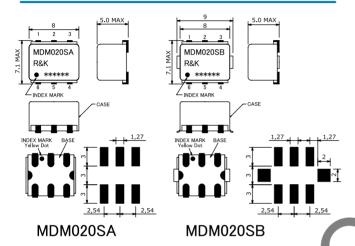


## **R&K-MDM020**



#### **OUTLINE DRAWING**

**XIN MILLIMETERS** 



■ Frequency : DC-800MHz
■ Mid LO Drive Level : +10dBm

■ Small & Low Cost / Surface Mount

■ RoHS Compliance

### **SPECIFICATIONS**

Frequency Range [LO&RF] : 1-800MHz

[IF] : DC-500MHz

Conversion Loss (LO Drive Level +10dBm)

	•		•
	1 - 10MHz	10 - 200MHz	200 - 800MHz
Тур.	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	45dB	25dB	15dB
RF - IF	30dB	20dB	10dB

Input IP3 @Center Band : +25dBm (typ.)
Input 1dB Comp. Point : + 6dBm (typ.)

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

Operating Temperature  $: -40^{\circ}\text{C} \text{ to } + 85^{\circ}\text{C}$ Storage Temperature  $: -40^{\circ}\text{C} \text{ to } + 100^{\circ}\text{C}$ Max.Reflow Soldering Temp.  $: 260^{\circ}\text{C},10\text{sec}$ .

Reflow Soldering Repeatability : 3 timesWeight (Standard) : 0.47g (typ.)

**SCHEMATIC** 

### HOW TO ORDER

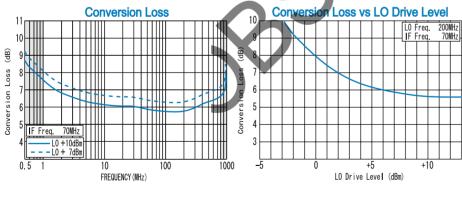
Model Name

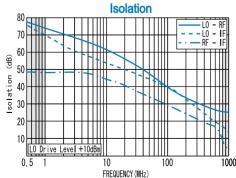
R&K-MDM020SA-BLK

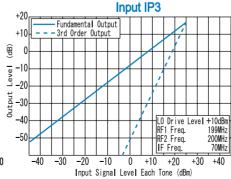
BLK=Antistatic bag
TR1=Tape & Reel Package

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

## TYPICAL PERFORMANCE (Temp @+25°C)







Function	Pin No.	
LO	1	
RF	4	
ΙF	5	
GND	2,3,6	

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