# DOUBLE BALANCED MIXER

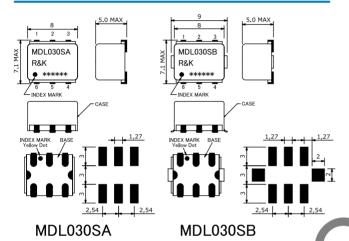


### R&K-MDL030



#### **OUTLINE DRAWING**

**※IN MILLIMETERS** 



■ Frequency :DC-1000MHz

■ Low LO Drive Level : +7dBm

■ Small & Low Cost / Surface Mount

■ RoHS Compliance

#### **SPECIFICATIONS**

Frequency Range [LO&RF] : 0.1-1000MHz

[IF] : DC-1000MHz Conversion Loss (LO Drive Level +7dBm)

			,
	0.1 - 2MHz	2 - 500MHz	500 - 1000MHz
Тур.	7.0dB	5.5dB	7.0dB
Max.	9.5dB	7.5dB	9.0dB

#### Isolation (min.)

	0.1 - 2MHz	2 - 500MHz	500 - 1000MHz
LO - RF	50dB	30dB	20dB
LO - IF	40dB	20dB	10dB
RF - IF	35dB	15dB	10dB

Input IP3 @Center Band : +15dBm (typ.)
Input 1dB Comp. Point : + 2dBm (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  $: -40^{\circ}\text{C} \text{ to } + 85^{\circ}\text{C}$ 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 times

**SCHEMATIC** 

#### HOW TO ORDER

Weight (Standard)

Model Name

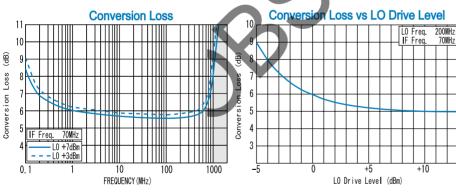
R&K-MDL030SA-BLK

BLK=Antistatic bag
TR1=Tape & Reel Package

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

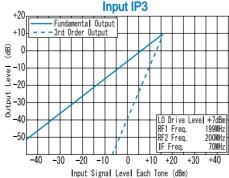
: 0.47g (typ.)

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



HZ HZ	
	10 5 7 7 3
	# {

00		Isolatio	n	
80 70		Isolation	n	LO - RF - LO - IF - RF - IF
20 10	Drive Level +7dBm	10 FREQUENCY (W	100 MHz)	1000



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

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