## DOUBLE BALANCED MIXER

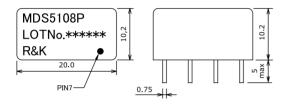


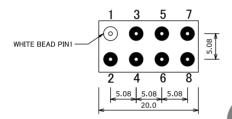
### **R&K-MDS510**



#### **OUTLINE DRAWING**

**XIN MILLIMETERS** 





: DC-2000MHz Frequency

■ S-High LO Drive Level ■ Low Cost / 8PIN Package : +20dBm

■ RoHS Compliance

#### **SPECIFICATIONS**

Frequency Range [LO&RF] : 5-2000MHz : DC-900MHz

(LO Drive Level +20dBm) Conversion Loss

	`		
	5 - 100MHz	100 - 1000MHz	1000 - 2000MHz
Тур.	7.5dB	7.5dB	9.0dB
Max.	10,0dB	9.5dB	11.0dB

#### Isolation (min.)

	5 - 100MHz	100 - 1000MHz	1000 - 2000MHz
LO - RF	40dB	25dB	20dB
LO - IF	40dB	20dB	10dB
RF - IF	15dB	10dB	10dB

Input IP3 @Center Band : +25dBm (typ.) Input 1dB Comp. Point : +13dBm (typ.)

Impedance (All Ports) : 50 Ω Maximum RF Input Power : 500mW Maximum Peak IF Current : 50mA

Operating Temperature  $: -40^{\circ}\text{C to} + 85^{\circ}\text{C}$ Storage Temperature : -40°C to +100°C

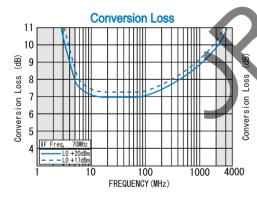
# TO ORDER

Model Name

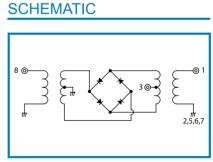
R&K-MDS5108P

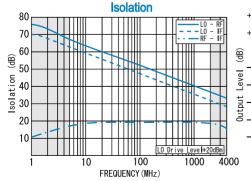
8P=8PIN Package

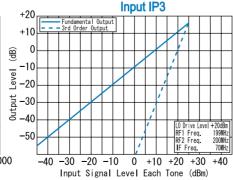
#### TYPICAL PERFORMANCE (Temp @+25°C











Function	Pin No.	
RF	1	
IF	3	
LO	8	
GND	2,5,6,7	
N.C.	4	

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