## DOUBLE BALANCED MIXER



R&K-MDL140	<ul> <li>Frequency :DC-3200MHz</li> <li>Low LO Drive Level :+7dBm</li> <li>Small &amp; Low Cost / Surface Mount</li> <li>RoHS Compliance</li> <li>SPECIFICATIONS</li> </ul>
A A A	Frequency Range         [LO&RF]         : 1300-3200MHz           [IF]         : DC-800MHz           Conversion Loss         (LO Drive Level +7dBm)           1300 - 1700MHz         1700 - 2700MHz         2700 - 3200MHz           Typ.         7.0dB         8.0dB         9.0dB           Max.         9.5dB         10.0dB         11.0dB           Isolation (min.)         10.0dB         11.0dB         11.0dB
OUTLINE DRAWING XIN MILLIMETERS	1300 - 1700MHz         1700 - 2700MHz         2700 - 3200MHz           LO - RF         25dB         26dB         20dB           LO - RF         25dB         20dB         20dB
NDEX MARK Velow Dot Wellow Dot We	LO-IF20dB20dB20dBRF-IF5dB5dB10dBInput IP3 @Center Band: $+9dBm (typ.)$ Input 1dB Comp. Point: $+3dBm (typ.)$ Impedance (All Ports): $50 \Omega$ Maximum RF Input Power: $50mW$ Maximum Peak IF Current: $50mA$ Operating Temperature: $-40^{\circ}C to + 85^{\circ}C$ Storage Temperature: $-40^{\circ}C to + 100^{\circ}C$ Max.Reflow Soldering Temp.: $260^{\circ}C,10sec.$ Reflow Soldering Repeatability: 3 timesWeight (Standard): $0.46g (typ.)$ HOW TO ORDERModel NameIRLK=Antistatis has
<u>2,54       2,54</u> MDL140SC MDL140SD	R&K-MDL140SC-BLK TR1=Tape & Reel Package
MDE14030 MDE1403D	SC=Case Type of <u>SC</u> SD=Case Type of <u>SD</u>
TYPICAL PERFORMANCE (Temp @+25°C)	
	nput IP3
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	
	LO 1 RF 4
	RF         4           IF         5
	LO Drive Level +7d8m RF1 Freq. 2000MHz GND 2, 3, 6
	RF2 Freq. 2001MHz IF Freq. 70MHz
1         2         3         -40         -30         -20         -10         0         +10         +20         +30         +40           FREQUENCY (GHz)         Input Signal Level Each Tone (dBm)         Input Signal Level Each Tone (dBm)         Input Signal Level Each Tone (dBm)	
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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.

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