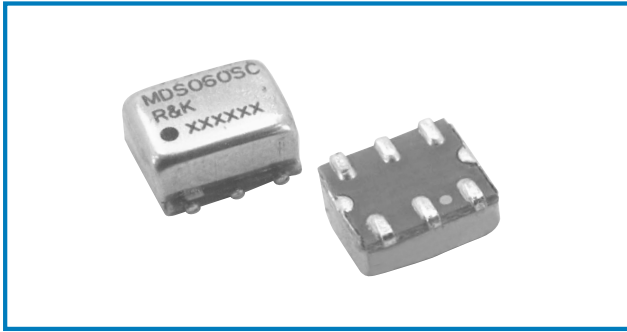


# DOUBLE BALANCED MIXER

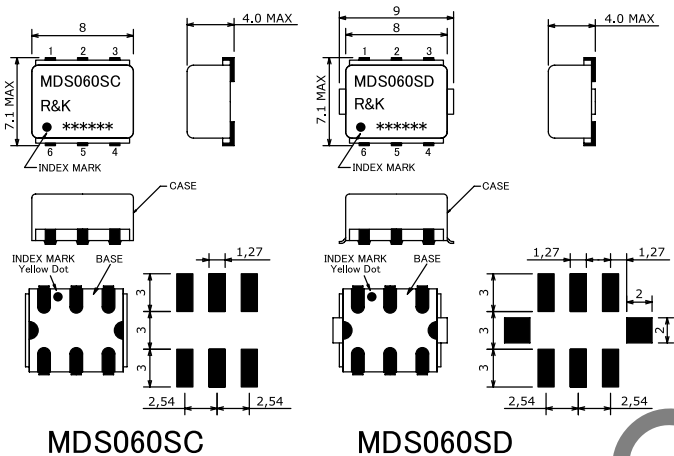


## R&K-MDS060



### OUTLINE DRAWING

※IN MILLIMETERS



- Frequency : DC-2200MHz
- S-High LO Drive Level : +20dBm
- Small & Low Cost / Surface Mount
- RoHS Compliance

### SPECIFICATIONS

|   |               |                |                |
|---|---------------|----------------|----------------|
| Frequency Range [LO&RF]                 | : 800-2200MHz |                |                |
| [IF]                                    | : DC-800MHz   |                |                |
| Conversion Loss (LO Drive Level +20dBm) |               |                |                |
|   | 800 - 1200MHz | 1200 - 1800MHz | 1800 - 2200MHz |
| Typ.                                    | 7.0dB         | 5.5dB          | 6.0dB          |
| Max.                                    | 9.5dB         | 7.5dB          | 8.0dB          |

### Isolation (min.)

|         |               |                |                |
|---------|---------------|----------------|----------------|
|         | 800 - 1200MHz | 1200 - 1800MHz | 1800 - 2200MHz |
| LO - RF | 20dB          | 20dB           | 20dB           |
| LO - IF | 15dB          | 15dB           | 20dB           |
| RF - IF | 10dB          | 5dB            | 10dB           |

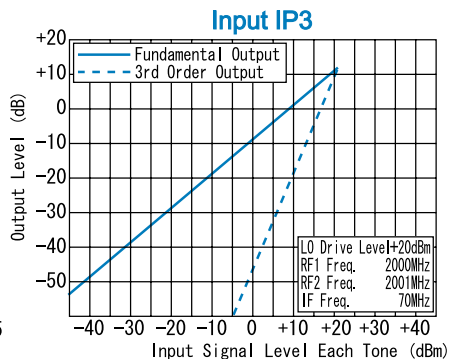
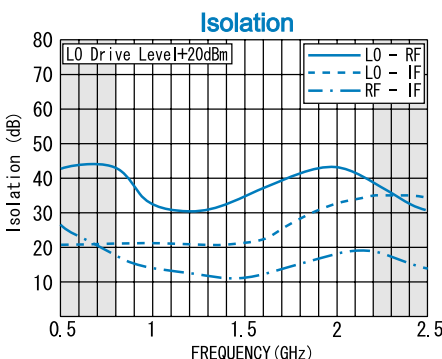
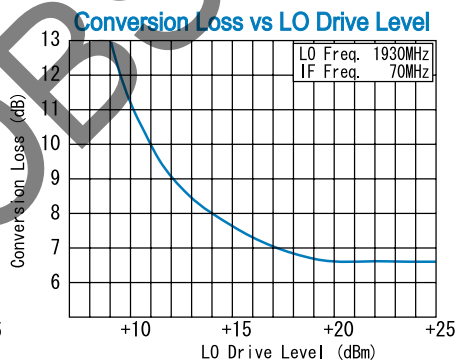
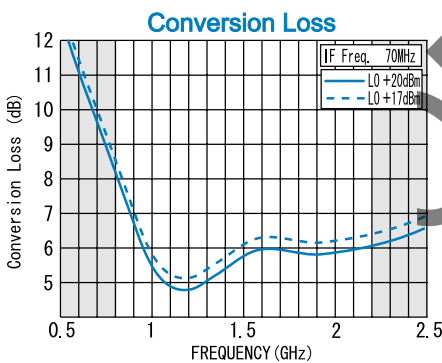
- Input IP3 @Center Band : +21dBm (typ.)
- Input 1dB Comp. Point : +15dBm (typ.)
- Impedance (All Ports) : 50Ω
- Maximum RF Input Power : 500mW
- Maximum Peak IF Current : 50mA
- Operating Temperature : -40°C to + 85°C
- Storage Temperature : -40°C to +100°C
- Max.Reflow Soldering Temp. : 260°C,10sec.
- Reflow Soldering Repeatability : 3 times
- Weight (Standard) : 0.46g (typ.)

### HOW TO ORDER

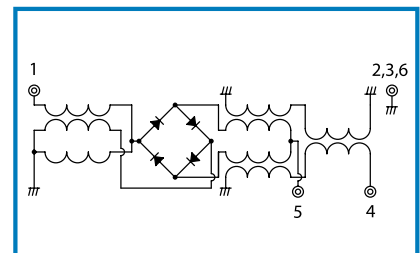
Model Name  
**R&K-MDS060SC-BLK**

BLK=Antistatic bag  
 TR1=Tape & Reel Package  
 SC=Case Type of SC  
 SD=Case Type of SD

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



### SCHEMATIC



| Function | Pin No. |
|----------|---------|
| LO       | 1       |
| RF       | 4       |
| I F      | 5       |
| GND      | 2, 3, 6 |

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.

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