

## Non-Catalog Model

# Frequency Mixer

# LRMS-5MHJ

Level 13 (LO Power +13 dBm)

### Important Note

This is a non-catalog model and can be manufactured on specific request. Pricing and delivery information can be supplied upon request.



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**CASE STYLE : QQQ569**

| ELECTRICAL SPECIFICATIONS 50Ω @ +25°C |               |      |      |      |       |
|---------------------------------------|---------------|------|------|------|-------|
| Parameter                             |               | Min. | Typ. | Max. | Units |
| Frequency                             | LO (fL to fU) | 10   |      | 1500 | MHz   |
|                                       | RF (fL to fU) | 10   |      | 1500 | MHz   |
|                                       | IF            | 0    |      | 900  | MHz   |
| Conversion Loss                       | mid band      |      | 5.7  | 9.0  | dB    |
|                                       | Total Range   |      |      | 9.5  | dB    |
| LO-RF Isolation                       | Low Range     | 40   | 58   |      | dB    |
|                                       | Mid Range     | 20   | 40   |      | dB    |
|                                       | Upper Range   | 18   | 26   |      | dB    |
| LO-IF Isolation                       | Low Range     | 30   | 50   |      | dB    |
|                                       | Mid Range     | 18   | 38   |      | dB    |
|                                       | Upper Range   | 8    | 17   |      | dB    |
| 1 dB Comp. Input Power                |               |      | +9   |      | dBm   |

Notes: Low Range = [fL to 10fL]  
mid band = [2fL to fU/2]

Mid Range = [10fL to fU/2]

Upper Range = [fU/2 to fU]

Phase detection, positive polarity  
Aqueous washable.

| MAXIMUM RATINGS       |                |
|-----------------------|----------------|
| Operating Temperature | -40°C to 85°C  |
| Storage Temperature   | -55°C to 100°C |
| RF Power              | 200mW          |
| IF Current            | 40mA           |

| PIN CONNECTIONS |         |
|-----------------|---------|
| LO              | 1       |
| RF              | 4       |
| IF              | 5       |
| GROUND          | 2, 3, 6 |

### Electrical Schematics

