

## Frequency Mixer

## TUF-ED12914/4

Level 13 (LO Power + 13 dBm)

### Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



Please click "Back", and then click "Contact Us" for Applications support.

**CASE STYLE : NNN150**

| ELECTRICAL SPECIFICATIONS 50Ω @ +25°C |               |      |      |      |       |
|---------------------------------------|---------------|------|------|------|-------|
| Parameter                             |               | Min. | Typ. | Max. | Units |
| Frequency                             | LO (fL to fu) | 20   |      | 1500 | MHz   |
|                                       | RF (fL to fu) | 20   |      | 1500 | MHz   |
|                                       | IF            | 10   |      | 1000 | MHz   |
| Conversion Loss                       | mid band      |      | 6.5  |      | dB    |
|                                       | Total Range   |      | 7    |      | dB    |
| LO-RF Isolation                       | Low Range     |      | 50   |      | dB    |
|                                       | Mid Range     |      | 41   |      | dB    |
|                                       | Upper Range   |      | 35   |      | dB    |
| LO-IF Isolation                       | Low Range     |      | 38   |      | dB    |
|                                       | Mid Range     |      | 28   |      | dB    |
|                                       | Upper Range   |      | 20   |      | dB    |
| Input IP3                             |               |      | +17  |      | dBm   |
| 1 dB Compression                      |               |      | +9   |      | dBm   |

**Note:** Low Range = [fL to 10fL]  
mid band = [2fL to fu/2]

Mid Range = [10fL to fu/2]

Upper Range = [fu/2 to fu]

| MAXIMUM RATINGS       |                 |
|-----------------------|-----------------|
| Operating Temperature | -55°C TO +100°C |
| Storage Temperature   | -55°C TO +100°C |

| PIN CONNECTIONS |   |
|-----------------|---|
| LO              | 4 |
| RF              | 1 |
| IF              | 2 |
| GROUND          | 3 |
| CASE GROUND     | 3 |

### Electrical Schematics

