

## Frequency Mixer

## ADE-ED12874/2

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.



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**CASE STYLE : CD542**

| ELECTRICAL SPECIFICATIONS 50Ω @ +25°C |               |      |        |      |       |
|---------------------------------------|---------------|------|--------|------|-------|
| Parameter                             |               | Min. | Typ.   | Max. | Units |
| Frequency                             | LO (fL to fu) | 10   |        | 600  | MHz   |
|                                       | RF (fL to fu) | 10   |        | 600  | MHz   |
|                                       | IF            | 10   |        | 600  | MHz   |
| Conversion Loss                       | mid band      |      | 5.4    |      | dB    |
|                                       | Total Range   |      | 5.6    |      | dB    |
| LO-RF Isolation                       | Low Range     |      | 63     |      | dB    |
|                                       | Mid Range     |      | 53     |      | dB    |
|                                       | Upper Range   |      | 43     |      | dB    |
| LO-IF Isolation                       | Low Range     |      | 56     |      | dB    |
|                                       | Mid Range     |      | 44     |      | dB    |
|                                       | Upper Range   |      | 30     |      | dB    |
| Input IP3                             |               |      | +21.50 |      | 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 | -40°C to +85°C  |
| Storage Temperature   | -55°C to +100°C |

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

**Electrical Schematic**

