

## Frequency Mixer

## ADE-ED12874/3

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 (f <sub>L</sub> to f <sub>U</sub> ) | 10   |      | 1200 | MHz   |
|                                       | RF (f <sub>L</sub> to f <sub>U</sub> ) | 10   |      | 1200 | MHz   |
|                                       | IF                                     | 10   |      | 1200 | MHz   |
| Conversion Loss                       | mid band                               |      | 6.5  |      | dB    |
|                                       | Total Range                            |      | 6.8  |      | dB    |
| LO-RF Isolation                       | Low Range                              |      | 62   |      | dB    |
|                                       | Mid Range                              |      | 45   |      | dB    |
|                                       | Upper Range                            |      | 40   |      | dB    |
| LO-IF Isolation                       | Low Range                              |      | 68   |      | dB    |
|                                       | Mid Range                              |      | 42   |      | dB    |
|                                       | Upper Range                            |      | 30   |      | dB    |
| Input IP3                             |                                        |      | +20  |      | dBm   |
| 1 dB Compression                      |                                        |      | +9   |      | dBm   |

Note: Low Range = [f<sub>L</sub> to 10f<sub>L</sub>]  
mid band = [2f<sub>L</sub> to f<sub>U</sub>/2]

Mid Range = [10f<sub>L</sub> to f<sub>U</sub>/2]

Upper Range = [f<sub>U</sub>/2 to f<sub>U</sub>]

| 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

