

## Frequency Mixer

## ADE-ED7640/1

Level 7 (LO Power +7 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> ) | 135  |      | 1760 | MHz   |
|                                       | RF (f <sub>L</sub> to f <sub>U</sub> ) | 135  |      | 1760 | MHz   |
|                                       | IF                                     | 0.1  |      | 1000 | MHz   |
| Conversion Loss                       | mid band                               |      | 7.1  |      | dB    |
|                                       | Total Range                            |      | 7.2  |      | dB    |
| LO-RF Isolation                       | Low Range                              |      | 38   |      | dB    |
|                                       | Mid Range                              |      | -    |      | dB    |
|                                       | Upper Range                            |      | 33   |      | dB    |
| LO-IF Isolation                       | Low Range                              |      | 35   |      | dB    |
|                                       | Mid Range                              |      | -    |      | dB    |
|                                       | Upper Range                            |      | 30   |      | dB    |

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

| 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 |