

50Ω Multiply-BY-2, Output 5G-10 GHz

Case PN: 6UDD2W6S1P2

Features:

- Multiply by M: (M = 2)
- Input frequency range: 2.5G-5 GHz
- Low conversion loss, 12 dB typical
- High fundamental & harmonic suppression, F1, 22 dBc typ.; F3, 30 dBc typ.; F4, 15 dBc typ.
- Rugged, shielded case (SMA Connector)

Applications:

- Synthesizers, Local Oscillators
- Cellular, Satellite Communication Systems
- PCS/W-CDMA
- ISM, LTE
- SDR & Ham Radio



Electrical Specifications

| Multiplication Factor | Freq. (MHz) | | Input Power (dBm) | | Conversion Loss (dB) | | *Harmonic Output (dBc) | | | | | |
|-----------------------|-------------|-----------|-------------------|------|----------------------|------|------------------------|------|------|------|------|------|
| | F1 | F2 | | | | | F1 | | F3 | | F4 | |
| | Input | Output | Min. | Max. | Typ. | Max. | Typ. | Min. | Typ. | Min. | Typ. | Min. |
| 2 | 2500-3600 | 5000-7200 | 13 | 17 | 12 | 15 | 12 | 15 | 33 | 22 | 12 | 7 |
| | 3600-5000 | 7200-1000 | 13 | 17 | 12 | 15 | 22 | 15 | 29 | 20 | 19 | 12 |

*Harmonics of input frequency below the power level of F2

Absolute Maximum Ratings

| Item | Parameter | Rating | UNITS |
|------|-----------------------|-------------|-------|
| 1 | RF Input Power, 25 °C | 100 | mW |
| 2 | Storage Temperature | -55 to +100 | °C |
| 3 | Operating Temperature | -40 to +85 | °C |

Outline Drawing (inch)

