Features:
- Combines: Diode Doublers, Comb Multipliers, MMIC Switches, Mixer, Amplifiers and Filters
- Low Residual Noise: -120 dBC/Hz @ 10 kHz
- Miniature Size: < 3.5 cubic inches
- Low Power Dissipation: 6.75 W
- Low Spurious: -80 dBC typical

Electrical Specifications

**RF Input**
- Frequency: 10.1 to 10.3 GHz
- Power Level: 0 dBm ± 2 dB
- Input VSWR: 2.0:1, maximum

**Reference Input**
- Frequency: 35 MHz
- Power Level: +6 dBm ± 1.5 dB
- Input VSWR: 1.7:1, maximum
- Multiplication Factor: X288 or X296

**IF Output**
- Frequency: Note 1 20 - 280 MHz
- Power Level: +1.5 dBm ± 3.5 dB
- Output VSWR: 2.5:1, nominal
- Harmonics: -25 dBc, typical
- Spurious: -80 dBc, typical
- Residual Noise: Note 2 -120 dBc/Hz

**General**
- Control Interface: 1 bit TTL (X288 or X296)
- DC Power: +15 ± 0.4 V @ 450 mA
  - (nominal) - 5 ± 0.5 V @ 0.10 mA
- Power Consumption: 6.75 W, nominal

Environmental Specifications

- Operating Temperature: -20 to +70 °C, baseplate
- Environment: Missile

Mechanical Specifications

- Size: (see outline) < 3.5 cubic inches
- Weight: 10 oz (284 g), nominal
- Connectors:
  - Ref. Input: SMA (F)
  - RF In, IF Out: Feedthru Terminals

Note 1: The IF output has two overlapping, selectable bands providing a multiplication factor of either 288 or 296.
Note 2: Referenced to an offset of 10 kHz