

Frequency Multipliers

X15 Multiplication

SPECTRUM MICROWAVE

Spectrum Microwave offers a complete line of low noise odd order SRD frequency multipliers, which exhibit excellent phase noise performance. The input signal is amplified, multiplied and filtered at X Band. Filtering in this series of multipliers is accomplished through a very narrow high Q band pass filter.

All internal semiconductors are housed in rugged hermetically sealed packages to insure excellent performance over military environmental conditions. Additive phase noise testing is performed on each device to ensure low phase noise/jitter performance.

Typical Performance Characteristics

| | |
|------------------------|----------------------------------|
| <i>Input Frequency</i> | 413 – 726 MHz |
| <i>Band Width</i> | 2% |
| <i>Input Power</i> | 17 dBm |
| <i>Output Power</i> | 3 dBm |
| <i>Harmonics</i> | ≤-50 dBc |
| <i>Sub-Harmonics</i> | ≤-60 dBc |
| <i>DC Input Power</i> | 15 VDC @ ≤110 mA, -5 VDC @ ≤1 mA |
| <i>Mechanical</i> | 4.2" x 2" x 0.65" |

