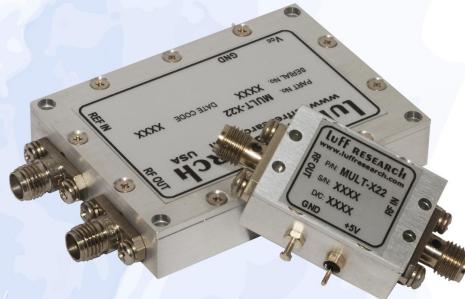


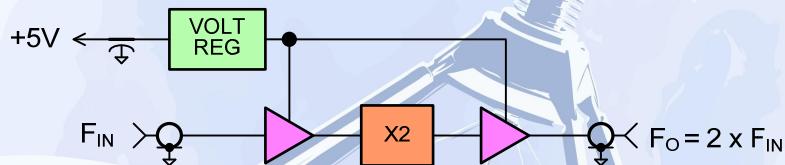
NEW! FREQUENCY MULTIPLIERS TO 32 GHz

- **Model MX-21, MX-22 & MX-23 Features**

- Connectorized package
- Broadband performance 10 - 32 GHz
- Output Power +13 dBm min
- Harmonics & Sub-Harmonics -20 dBc (typical)
- Single +5.0 Vdc (150 mA)
- Low cost



- **Block Diagram**



- **Description**

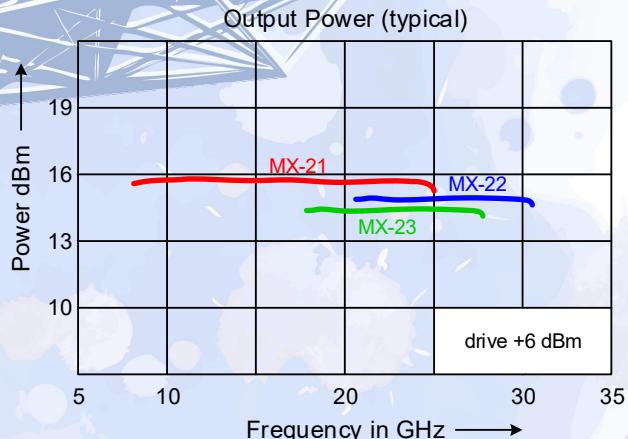
Luff Research's new active x2 frequency multipliers are connectorized, rugged assemblies that operate on a single power supply and are system ready at Luff components.

These units are designed for industrial and commercial communications equipment making

possible Ku-band and K-band operation at very low cost. The x2 multipliers can be used as standalone components for various applications in microwave frequency generation or in conjunction with a Luff synthesizer or oscillator to realize a high performance system ready frequency source at prices that are very attractive.

- **Key Specifications**

| Function | MX-21 | MX-22 |
|----------------------------|-----------------------|-----------------------|
| Frequency Input: | 4 - 13 GHz | 11.5 - 16 GHz |
| Power Input: | 4 - 8 dBm | 4 - 8 dBm |
| Frequency Output: | 8 - 26 GHz | 22 - 32 GHz |
| Power Output: | +13 dBm (min) | +13 dBm (nom.) |
| Harmonics & Sub-Harmonics: | -20 dBc (typ.) | -20 dBc (typ.) |
| DC Power: | +5.5 Vdc ±0.5 V | +5.5 Vdc ±0.5 V |
| Connectors In/Out: | SMA/SMA (27 GHz) | SMA/2.92mm |
| Temperature Range: | -20°C to +70°C | -20°C to +70°C |
| Size: | 2.25" x 1.65" x 0.42" | 1.10" x 0.80" x 0.42" |



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