

Frequency Synthesizers



Elcom Technologies has designed a new series of dual output, rugged frequency synthesizers with ultra low microphonics and improved phase noise at least 10 dBc lower than previous models. Designed for high capacity MW and MMW radios up to 38 GHz, the DFSL series offer lower phase noise and guaranteed zero phase hits – a key feature over the competition. Low Phase noise meets 16, 32, 128 and 256 QAM requirements making the synthesizers suitable for high-speed data transmissions. The DFSL series has a tuning bandwidth up to 1000 MHz and step sizes ranging from 25 KHz to 10 MHz. DC power consumption for the synthesizers is under 4 watts and offers wide operating temperature between -55°C to 70°C. Packaged in a 3.75 x 4.5 x 1.16 inch housing, the devices are also available in a low profile construction of 3.75 x 4.5 x 0.73 inch package. Additional applications include Wireless ATM networks and SATCOM Converters. Specifications for the DFSL Series include a frequency range of 0.5 to 23 GHz (in bands), switching speed less than 25 ms, output power range 12 to 18 dBm, spurious output of -70 dBc, and harmonics of -20 dBc. Frequency Stability is less than 3 PPM (-55°C to 70°C), and frequency control is BCD, Serial RS-232 or RS-485.

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