

# Frequency Synthesizers up to 42 GHz



## TECHNICAL SPECIFICATIONS

- **Frequency Range**  
Up to 42 GHz, covering microwave and lower mmWave bands
- **Architecture**  
Single-channel and multi-channel synthesizer configurations
- **Bandwidth**  
Broadband designs for wide instantaneous bandwidth requirements
- **Phase Noise**  
Optimized performance for demanding signal integrity applications
- **Tuning**  
Frequency resolution and speed tailored for real-time operation
- **Outputs**  
Standard RF connectors and waveguide interfaces available

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## APPLICATIONS

**5G/6G & Telecommunications:**  
Local oscillator generation and frequency conversion for wireless infrastructure and terminal equipment

**SATCOM:** Uplink and downlink signal generation across satellite communication bands

**Defense & Radar:** Precise frequency control for electronic warfare, surveillance, and target acquisition systems

**Test & Measurement:** Vector network analyzers, spectrum analyzers, and signal generators requiring stable frequency sources

**Research & Development:** Broadband synthesis capabilities for prototype evaluation and characterization

**Aerospace:** Navigation systems and avionics equipment demanding compact, reliable solutions