

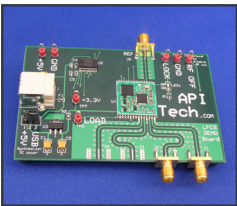
# Surface Mount Frequency Synthesizers

## Low Cost with Superior Phase Noise Performance



Complete with a Low Phase Noise Standard Internal Reference

- Internal Reference (External Optional)
- Full Octave Performance
- Integrated Microcontroller Look-up Table
- Customizable Parallel or Serial Programming
- Ultra Low Phase Noise Performance
- 3 Additional Complementary Output Lines Available
- Settling Speed as low as 80  $\mu$ sec



- API offers a complete line of low cost surface mount synthesizers ideally suited for applications where a low cost, non-hermetic solution is desired.
- Full octave designs feature excellent phase noise performance, a programmable EPROM, all in a small .800" square package.
- NRE charges generally are not required to customize these low phase noise surface mount synthesizers.
- Demo-boards come complete with the synthesizer fully mounted, ready to use.
- Learn more on the API Technologies website: [micro.apitech.com/low-cost-synthesizer](http://micro.apitech.com/low-cost-synthesizer)

Model #	Frequency (MHz)	Step Size	Noise @ 10 kHz offset (dBc/Hz)	Noise @ 100 kHz offset (dBc/Hz)	Output Power (dBm)	Harmonics (dB)	Spurious (dBc)	Supply (Volts/mA)
LCFS1055	275-550	10 MHz	-113	-116	+13	-20	-40	3.3/150
LCFS1051	375-750	10 MHz	-98	-116	+13	-20	-40	3.3/150
LCFS1054	550-1100	10 MHz	-107	-110	+13	-20	-40	3.3/150
LCFS1050	750-1500	10 MHz	-92	-110	+13	-20	-40	3.3/150
LCFS1053	1100-2200	10 MHz	-101	-104	+13	-20	-40	3.3/150
LCFS1049	1500-3000	10 MHz	-86	-104	+13	-20	-40	3.3/150
LCFS1052	2200-4400	10 MHz	-95	-98	+13	-20	-40	3.3/150
LCFS1063	3 GHz - 6 GHz	10 MHz	-80	-98	+13	-20	-40	3.3/150

## Configurable (External Reference) Surface Mount Frequency Synthesizers

Model #	Frequency (MHz)	Step Size	Noise @ 10 kHz offset (dBc/Hz)	Noise @ 100 kHz offset (dBc/Hz)	Output Power (dBm)	Harmonics (dB)	Spurious (dBc)	Supply (Volts/mA)
LCFS1068	275-550	10 MHz	-113	-116	+13	-20	-40	3.3/150
LCFS1069	375-750	10 MHz	-98	-116	+13	-20	-40	3.3/150
LCFS1070	550-1100	10 MHz	-107	-110	+13	-20	-40	3.3/150
LCFS1071	750-1500	10 MHz	-92	-110	+13	-20	-40	3.3/150
LCFS1072	1100-2200	10 MHz	-101	-104	+13	-20	-40	3.3/150
LCFS1073	1500-3000	10 MHz	-86	-104	+13	-20	-40	3.3/150
LCFS1077	5200-5800	100 KHz	-83	-100	+3	-20	-60	3.3/150
LCFS1074	2200-4400	10 MHz	-95	-98	+13	-20	-40	3.3/150
LCFS1075	3000-6000	10 MHz	-80	-98	+13	-20	-40	3.3/150
LCFS1077	6.6 GHz - 10 GHz	30 MHz	-71	-89	+0	-20	-40	5/200

### Outline Drawing

(For Reference Only)

