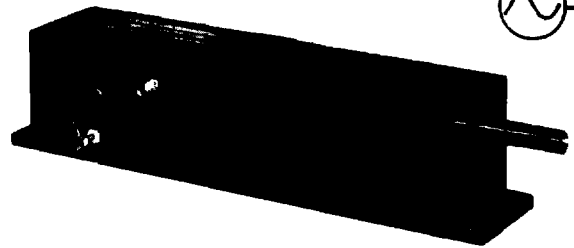


FUNDAMENTAL TRANSISTOR 1-5.1 GHz CAVITY OSCILLATORS

SERIES CC

GENERAL INFORMATION:

Model Series CC oscillators are high performance cavity bipolar transistor oscillators. They feature exceptionally long life mechanical tuning mechanisms supplemented with optional varactor diode tuning for phase-lock or AFC operation. The backlash free high resolution and low noise performance make these oscillators ideally suited for test equipment or system front panel operation.



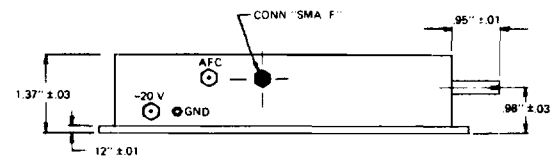
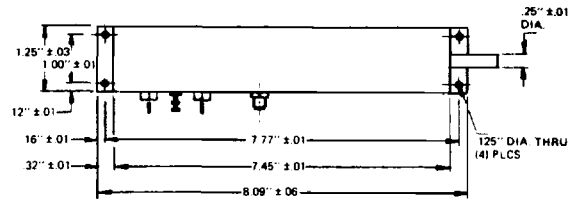
GENERAL SPECIFICATIONS:

Frequency Range:	Model CC-12 1.0-2.0 GHz Model CC-24 2.0-4.0 GHz Model CC-45 4.4-5.1 GHz
Tuning Backlash:	50 KHz max.
Life:	50,000 Turns min.
Power Flatness:	± 2 dB
Stability:	± 0.1% max. -30 to +65°C
Load Frequency: Pulling:	± 2% max., (± .15% Typ. for Load VSWR 1.5 Any Phase)
Power Supply Frequency Pushing:	.08% Typ., (-20 VDC @ 150 ma Max. Supply) 0.12% Max/V
Temperature:	± 0.1% Max., -30 to +65°C
Harmonics:	-25 dBc max. (-30 dBc Typ.)
Spurious:	80 dBc max.

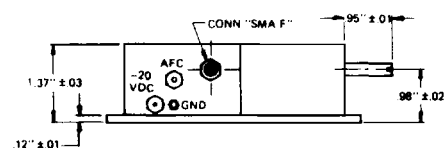
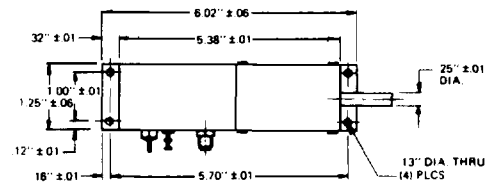
FM NOISE: SSB, 1 Hz BW

Freq. from Carrier	@ 3 GHz dB Below Carrier	@ 1.5 GHz dB Below Carrier
1 KHz	72	78
10 KHz	100	106
100 KHz	127	133
1 MHz	147	153
10 MHz	159	165

Tuning	Model CC-12	Model CC-24	Model CC-45
Mechanical Range:	1-2 GHz	2-4 GHz	4.4-5.1 GHz
# of Turns (Tightly Held on Request)	53-57	33-35	—
AFC Range: ± 5-15	optional	optional	optional
VDC input	1.25 MHz	2.5 MHz	—
(Band with DC to 10 MHz)	min. to 5 MHz max.	min. to 5 MHz max.	—
Power Output	100 mw min.	50 mw min.	50 mw min.

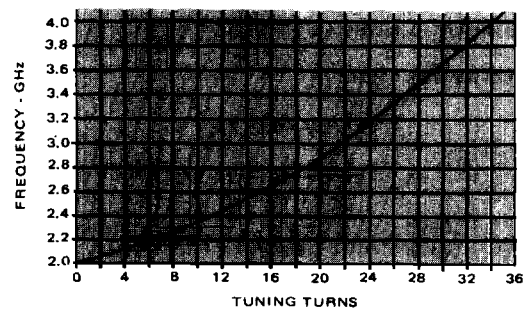


Model CC-12



Model CC-24

Typical Tuning Curve (Shown for CC-24)



Burn-In: 96 Hours minimum @ +85°C