



DRO's and CRO's

GaAs FET & Bipolar DRO's & CRO's, including voltage tuned option 10-500 and 10-600 Series

Series 10-500 and 10-600 DRO's & CRO's are designed for frequency source applications in tough commercial and industrial environments. Options are available for voltage tuning, as well as extended temperature.

Electrical Specifications

Frequency Range:

CRO & VTCRO 0.5 to 3 GHz

DRO & VTDRO 3 to 12 GHz

Output Power + 10 dBm, minimum

Frequency Drift vs. Temperature:

CRO & VTCRO 20 ppm/°C

DRO & VTDRO 5 ppm/°C

Frequency Pushing: 5 kHz/volt, typical
($\pm .5$ volts)

Frequency Pulling: 1 MHz p/p, typical
(2:1 load)

Phase Noise: See Figure 1

Spurious: -80 dBc, typical

Harmonics: -15 dBc, maximum

Output VSWR: 1.5:1, typical

Supply Voltage: +12 to 18 volts

DC Current: 80 mA, typical

Environmental Specifications

Standard Operating Temperature: 0 to +70°C

Mechanical Specifications

See Outlines

Option (-002)

Extended Temperature Range: -54 to +85°C

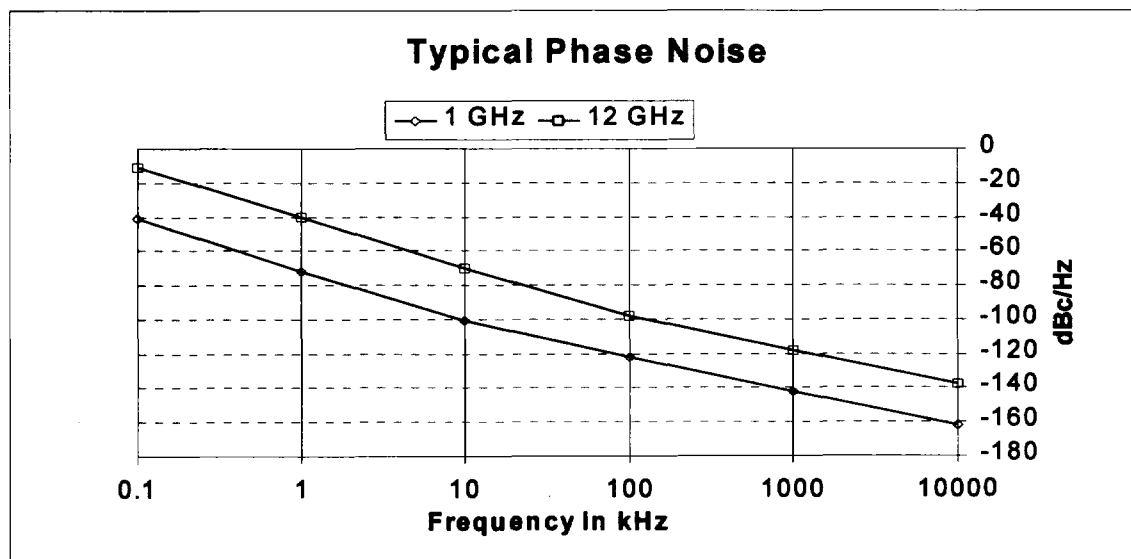


Figure 1



DRO's and CRO's

Standard Unit

Model Number	Frequency Range	Type	Outline Drawing
10-500-9000-000	0.5 to 1.5 GHz	CRO	A
10-500-9100-000	1.5 to 3.0 GHz	CRO	A
10-550-9000-000	3.0 to 5.0 GHz	DRO	B
10-550-9100-000	5.0 to 8.0 GHz	DRO	B
10-550-9200-000	8.0 to 12.0 GHz	DRO	B

Voltage Tuned Option ^{Note 1}

Model Number	Frequency Range	Type	Outline Drawing
10-600-9000-000	0.5 to 1.5 GHz	CRO	C
10-600-9100-000	1.5 to 3.0 GHz	CRO	C
10-650-9000-000	3.0 to 5.0 GHz	DRO	D
10-650-9100-000	5.0 to 8.0 GHz	DRO	D
10-650-9200-000	8.0 to 12.0 GHz	DRO	D

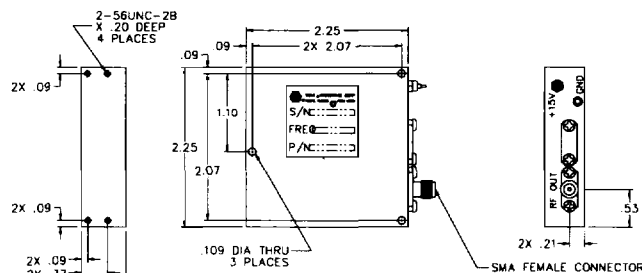
Ordering Information

Specify the model number and the exact operating frequency in GHz to the fourth decimal place. An example would be:
10-650-9000-002, 3.1521 GHz

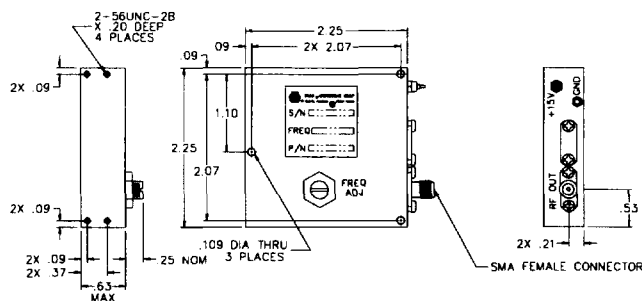
Options

For extended temperature range change the last digit in the model number to "2". No options is designated by the last three digits in the model number being -000.

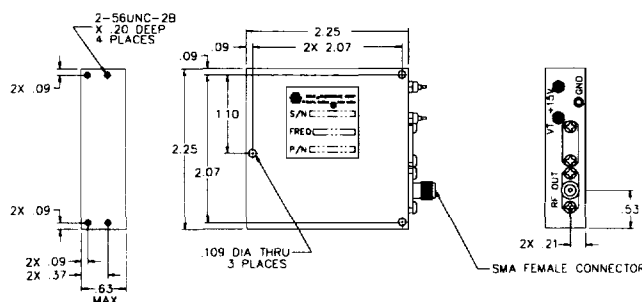
Note 1: Voltage tuning will be sufficient to overcome any temperature drift with an input voltage between 1 and 9 volts on the voltage tune port.



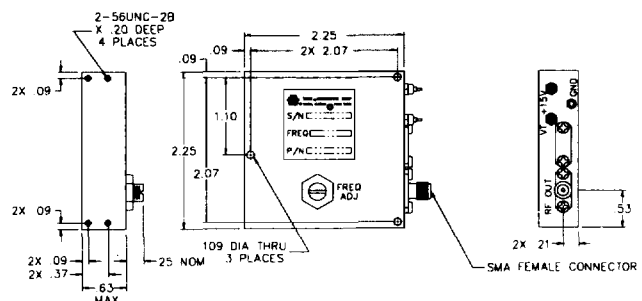
Outline A



Outline B



Outline C



Outline D