



## 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 (± .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

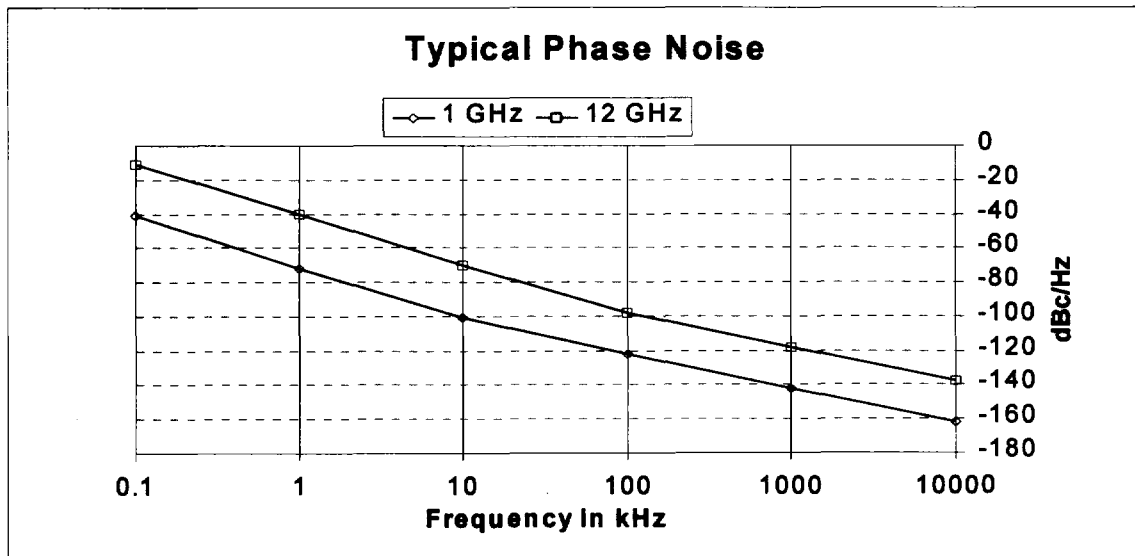


Figure 1



## 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

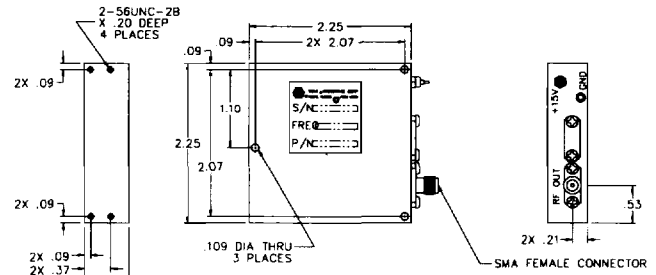
### Ordering Information

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

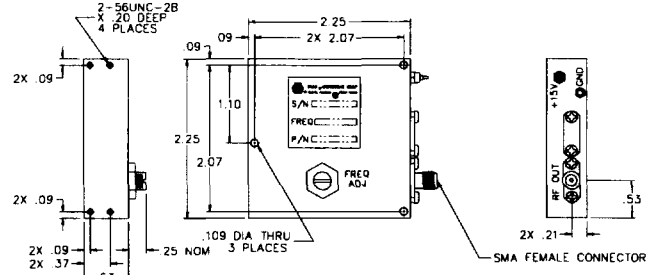
### Options

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.

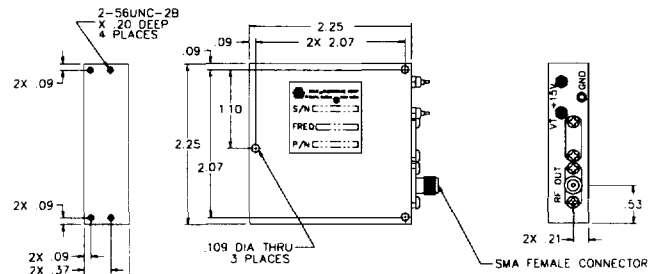
*Note 1: Voltage tuning will be sufficient to overcome any temperature drift with an input voltage between 1 and 9 volts on the voltage tune port.*



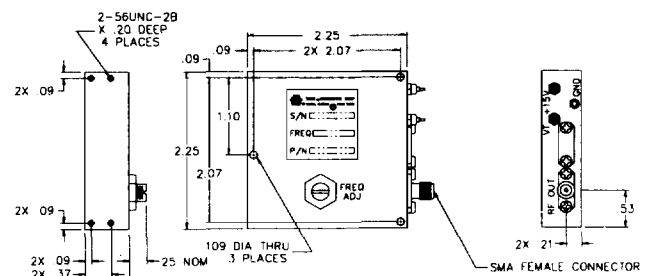
Outline A



Outline B



Outline C



Outline D