

Miniature Synthesisers

ASY Series

- Frequencies up to 25GHz
- Frequency Steps 1KHz typical
- 10MHz External or Internal Reference
- Frequency Control Serial RS485 or Ethernet
- Good Phase Noise
- Compact Size
- Non Volatile Memory



The ASY series are single phase-locked loop Frequency Synthesisers offering excellent performance combined with small size and a high degree of versatility for many applications in communications, radar and test instrumentation.

These high performing units are ready to use with a minimum of set-up and provide high value solutions, often from stock.

General Specifications	
Output Frequency	up to 12.5GHz fundamental and to 25GHz with X2 Multiplier
Frequency Steps	1KHz
Switching Speed	5msec max.
External Reference	10MHz typ. 0dBm +/-3dB
Frequency Stability & Accuracy (Ext. Ref.)	As Reference
Frequency Stability & Accuracy (Int. Ref.)	+/-0.5ppm (-10 to +70C)
Output Power	+13dBm min.
Output Power Variation (Freq. & Temp.)	3dB max.
Harmonics	-20dBc typ.
Spurious	-60dBc max.
VSWR	1.5:1 typ.
Operating Temperature	-10 to +70C
Storage Temperature	-40 to +85C
Input Voltage	+5.0 Vdc min to +5.5 Vdc max.
Input Current	650mA max.
Lock Alarm	TTL High for Locked
Standard Frequency Control	Serial RS485
Optional Frequency Control	mBed Ethernet Control Board with Virtual Control Panel
RF Connector	SMA Female
Digital & DC connection	BD9 Male
Size	2.50" x 2.50" x 0.63"

Oscillators

Phase Noise (dBc/Hz) typical								
Offset Frequency (Hz)	Frequency Range (GHz)							
	0.8-2GHz	1-2GHz	1.495-3.3	4-8GHz	8.8-10.3	8-12.5	9-8-10.95	11.5-13.5
100	-70	-80	-80	-75	-70	-65	-65	-65
1K	-90	-105	-90	-90	-85	-80	-75	-75
10K	-95	-115	-95	-95	-90	-80	-80	-80
100K	-95	-115	-95	-95	-90	-90	-85	-80
1M	-120	-135	-120	-120	-115	-115	-115	-115

Examples of Standard Models

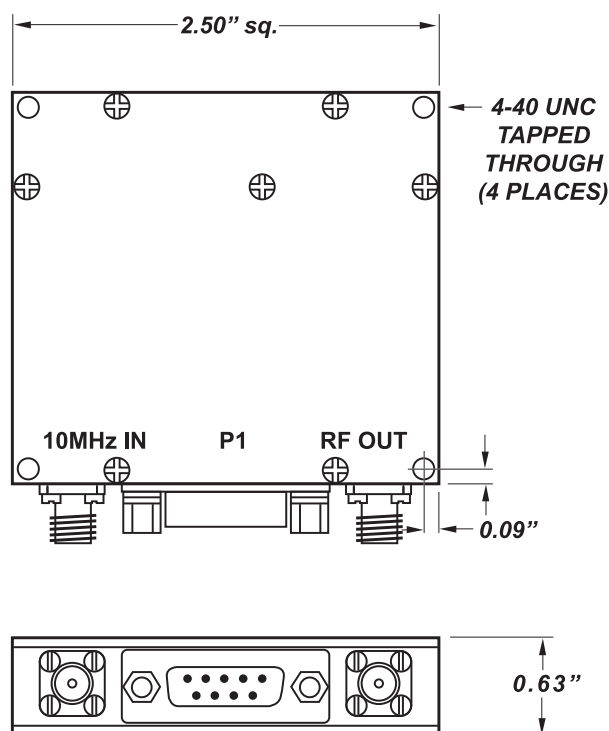
Model No	Frequency Range (GHz)
ASY-0080-0200-10	0.8-2.0
ASY-0149-0330-10	1.495-3.30
ASY-0200-0800-10	2.0-8.0
ASY-0300-0600-10	3.0-6.0
ASY-0400-0800-10	4.0-8.0
ASY-0500-1000-10	5.0-10.0
ASY-0800-1200-10	8.0-12.0
ASY-0880-1030-10	8.80-10.30
ASY-0980-1095-10	9.80-10.95
ASY-1150-1350-10	11.50-13.50

Model Numbering System

ASY	-XXXX	-XXXX	-XX
Start	End	End	Internal/External
Frequency	Frequency	Frequency	Reference
in GHz	in GHz	in GHz	10 = External
0200 = 2.00GHz	0800 = 8.00GHz		10MHz Reference
			INT = Internal
			TCXO Reference

Other Frequency Ranges available in half octave, full octave or octave plus bands with no NRE.

Please ask for a quotation by part number.



Dimensions in inches.

We reserve the right to change standard product specifications without notice but will be pleased to consider control drawings for quotation.

Oscillators

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