

PC Programmable Sources

ANS2 Series

- 45 MHz to 2500 MHz
- Frequency & Level Control
- Directly PC Programmable
- +10 dBm Output Power
- +/-1 ppm Stability
- Low Cost & Compact Size
- Wide Tuning Ranges
- Low Phase Noise
- Non-Volatile Memory
- Buffered RF Output
- Turn-key Operation



General Specifications	
Output Frequency	45 MHz to 2500 MHz in ranges
Frequency Stability	+/-1ppm max. over 0+50C
Internal Ref. Aging	+/-1ppm/year
Internal Ref. Accuracy	+/-1ppm @ +23 +/-1deg.C
Internal Ref. Frequency	10 MHz for 25, 50 & 100 KHz step models 9.6 MHz for 30 KHz step models
Internal Ref. Output	0 to +2dBm into 50 ohms
External Ref. Frequency	Up to 40 MHz depending on model
External Ref. Level	0.6-2.5 Vpp
External Ref. Impedance	600 ohms in parallel with 25pF
Reference Select	Miniature Toggle Switch
Output Power	+8dBm min., +10dBm typ.
Level Control Range	25dB min in 31 steps
Input Voltage	+17 to +24 V d.c. @ 110 mA
Operating Temperature	0+50C (see options)
Storage Temperature	-20+70C
Lock Time	2 to 6 msec typ.
Status LEDs (green)	RF On, Phase Lock, DC Applied
RF Output Connector	SMA female
Ref. Connector	SMA female
Input Power Connector	1.3 x 9.0mm centre positive jack
Data Connector	DB-9P
RF Output Modes	Continuous, Momentary & Toggled
Output Impedance	50 ohms
Size	90 x 70 x 19mm (excluding connectors)
Weight	170g
Housing	Aluminium with Black Epoxy Paint

The ANS2 series of programmable, synthesised RF signal sources feature both frequency and level control and, with a standard office PC, provide a turn-key solution to the provision of variable frequency sources for both systems and test equipment applications. Directly connecting to the PC parallel port, each unit can be set to frequencies within a typical 1.5:1 range and at levels up to +10dBm via an easy to use control panel software and the non-volatile memory enables the selected settings to be retained in the stand alone unit. Each unit contains a +/-1ppm stability reference TCXO but can also be used with an external reference. The sources are supplied complete with an 18V d.c. wall mount power supply, operating software and special interface cable.

Equipment Supplied as Standard:

- Synthesised Source
- Power Supply (Euro, UK or US style)
- Control Software (CD)
- Special Parallel Port Cable
- Operating Manual (CD)
- Spare DC Connector

Custom Options:

- Delete Power Supply
- Custom Frequency Range (subject to restrictions)
- Custom Step Size (subject to restrictions)
- Wider Temperature Range (-20+65C with +/-2ppm & +7dBm)
- Mounting Plate
- Instrument or Rack Mounting in Single or Multiple Units

PC Requirements:

- IBM compatible 386 or higher PC
- Running Windows 3.1 up to Windows XP
- 4-8 MB RAM
- 5MB Hard Disk Space
- CD Rom
- 640 x 480 Res. Monitor
- 25 Pin, D-Sub, EPP or SPP Parallel Port

Model No	Freq. Range (MHz)	Freq. Steps (KHz)	Freq. Stability (ppm)	Output Power typ. (dBm)	Harmonics (dBc)	Spurious (dBc)	Phase Noise typ.			Current @+18V d.c. (mA)
							@1KHz (dBc/Hz)	@10KHz (dBc/Hz)	@100KHz (dBc/Hz)	
ANS2-0045-025	45-65	25	±1	+10	-35	-60	-80	-100	-115	110
ANS2-0065-050	65-95	50	±1	+10	-35	-60	-80	-100	-115	110
ANS2-0080-050	80-120	50	±1	+10	-35	-60	-80	-100	-115	110
ANS2-0110-100	110-160	100	±1	+10	-35	-60	-80	-95	-110	110
ANS2-0160-100	160-220	100	±1	+10	-35	-60	-75	-85	-110	110
ANS2-0220-100	220-320	100	±1	+10	-35	-60	-75	-85	-110	110
ANS2-0320-100	320-500	100	±1	+10	-35	-60	-70	-80	-110	110
ANS2-0500-100	500-800	100	±1	+10	-35	-60	-70	-75	-110	110
ANS2-0800-030	800-1200	30	±1	+10	-35	-60	-65	-75	-110	110
ANS2-0800-100	800-1200	100	±1	+10	-35	-60	-65	-75	-110	110
ANS2-1000-100	1000-1500	100	±1	+10	-35	-60	-65	-75	-110	110
ANS2-1500-100	1500-2000	100	±1	+10	-35	-60	-60	-75	-110	110
ANS2-1700-100	1700-2200	100	±1	+10	-35	-60	-60	-70	-105	110
ANS2-2000-100	2000-2500	100	±1	+10	-35	-60	-60	-70	-105	110

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

Oscillators