



0.5 – 18GHz MICROWAVE SYNTHESIZER

- **VERY WIDE FREQUENCY TUNING RANGE**
- **FINE STEP**
- **LOW PHASE NOISE**
- **BUILT IN HIGH STABILITY FREQUENCY REFERENCE**
- **COMPACT MODEL**

This synthesizer is intended for use in professional applications, where the extra wide frequency tuning range, low phase noise, fine frequency step and compact size are important factors. This unit can be used in telecommunications, instrumentation and military applications.

Electrical characteristics:

Operating Frequency Range	500-18000 MHz					
Frequency Step Size	10kHz (optionally it may be less)					
Switching Speed.	500usec typical, 1msec max.					
Frequency Control	RS-232					
Internal Reference Frequency Stability	± 0.5 ppm					
External Reference (Optional)	10MHz, 0 to +6dBm ref. level					
Spurious	- 70dBc typical, -60dBc max.					
Subharmonics	-60dBc typical, -50dBc max					
Harmonics	-30dBc typical, -20dBc max.					
Output Power	+12 to +17dBm typically					
Phase Noise @ Frequency (GHz), typ. value	0.5	2.4	6.7	9.6	13.4	18
dBc/Hz @ 1kHz	-115	-103	-95	-94	-89	-88
dBc/Hz @ 10kHz	-124	-113	-105	-104	-101	-100
dBc/Hz @ 100kHz	-132	-119	-110	-109	-104	-103
dBc/Hz @ 1MHz	-150	-140	-130	-130	-126	-125
DC Voltage&Current	+15 V ±1V & 600mA typ.					
Operating temperature range	-20 to +60 °C (optional -40 to +75°C)					

Specifications are subject to change without notice.

Outline dimensions (mm):

