

0.5 – 18GHz MICROWAVE SYNTHESIZER

- **VERY WIDE FREQUENCY TUNING RANGE**
- **PC PROGRAMMABLE**
- **COMPACT SIZE**
- **BUILT IN FREQUENCY REFERENCE**

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

Electrical characteristics:

| | | | | |
|--|---|-------|-------|-------|
| Operating Frequency Range | 0.5 - 18 GHz | | | |
| Frequency Step Size | 1MHz @ 2-18GHz, 250kHz @ 0.5-2GHz | | | |
| Switching Speed. | 30msec typ., 100 msec max. | | | |
| Frequency Control | RS-232 | | | |
| Internal Reference Frequency Stability | ± 2 ppm | | | |
| Spurious | < - 60dBc @ F ₀ ±1GHz , <-50dBc in full Band | | | |
| Output Power | ≥ +10dBm | | | |
| Phase Noise @ Frequency range (GHz) | 0.5-2 | 2-8 | 8-12 | 12-18 |
| dBc/Hz @ 1kHz | <-77 | <-65 | <-62 | <-60 |
| dBc/Hz @ 10kHz | <-94 | <-82 | <-80 | <-78 |
| dBc/Hz @ 100kHz | <-120 | <-110 | <-105 | <-105 |
| dBc/Hz @ 1MHz | <-142 | <-140 | <-138 | <-138 |
| DC Voltage | +15 V ±0.5V | | | |
| DC Current | Max. 2.1 A @ 18GHz (dependent on frequency!) | | | |
| Operating temperature range | -10 to +60 °C (opt. -10 to +85 °C) | | | |

Specifications are subject to change without notice.

Outline dimensions (mm):

