

Dual Channel Frequency Synthesizers ND-D 500/500

The Dual Channel Frequency Synthesizers ND-D 500/500 and ND-D 1000/1000 have been designed specially for applications in ATE and NMR-systems. Two fully independent frequency synthesizers are fitted in a 19" rack-mount chassis. Both frequency synthesizers channels are supplied from a single reference oscillator with superior spectral purity and from a single power supply. This design concept reduces the costs and the mechanical size to a space efficient format. The technical specifications of each channel are the same as the single channel units ND 500 and ND 1000.

The output level ranges can be set in a wide range from 0 dBm up to + 13 dBm by two potentiometers on the front panel. Each channel is controlled through its own 50-pin BCD parallel connector. Two LED's on the front panel indicate stand-by mode and temperature status of the reference oscillator (OCXO).

- ◆ Two fully independent synthesizers in a 19"-rack mount chassis, 5.25" height
- ◆ Frequency range:
100 kHz ... 500 MHz (ND-D 500/500)
10 kHz ... 1000 MHz (ND-D 1000/1000)
- ◆ Frequency resolution 0.1 Hz / 0.2 Hz
- ◆ Residual FM \leq 0.1 Hz
- ◆ SSB phase noise \leq - 126/120 dBc/Hz
- ◆ Fast frequency switching \leq 1 μ s
phase-continuous for steps $<$ 1 MHz
- ◆ Highly-stable refer. frequency (OCXO)
- ◆ Output level 0 dBm ... + 13 dBm
- ◆ BCD parallel control
- ◆ Designed for ATE-systems and NMR



