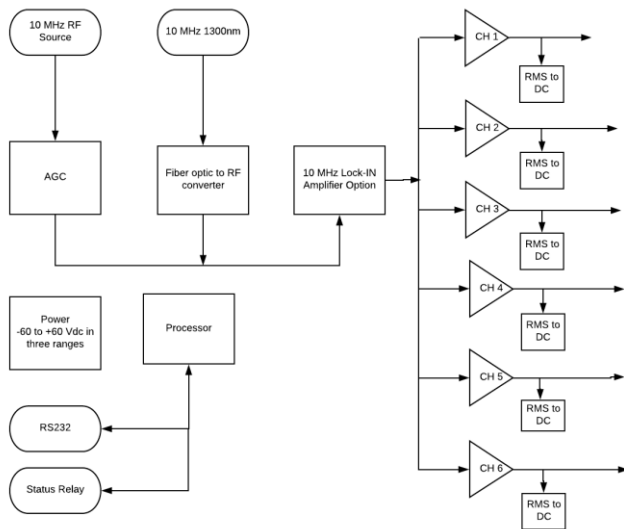


DATA SHEET FOR:	ND0106-R
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ND0106-R

Distribution Amplifier - Six Channel Fiber Optic and RF

KEY FEATURES



This low noise distribution amplifier has minimal phase noise contribution and flexibility. The ND0106-R can operate from - 60 Vdc to +60 Vdc in three ranges. There is also a power adapter available that will allow the unit to be operated from any global AC power source. Accepts 1300nm fiber multi-mode input from a Novus NF0100 transmitter. This allows the unit to serve a remote location using fiber or getting a precision reference to a location that must traverse a high electromagnetic environment. The ND0106-R offers an optional lock-in amplifier feature that will restore a reference to low phase noise while maintaining synchronization to the facility primary reference.

RF and Fiber Optic Compatible

Will accept an RF source or a 1300 nm fiber optic source.

Versatile Compact Package

6.0" x 6.0" x 1.6" package is ideal for embedded systems or remote locations. This design is also very popular in distributed systems minimizing cable runs.

Lock-in Option Restores Phase Noise

Achieve -150dBc/Hz with the lock-in option.

Versatile Power Options

The unit can be ordered to operate from 110 - 220 Vac, $\pm(9$ to 15 Vdc), $\pm(20$ to 30 Vdc) or $\pm(40$ to 60 Vdc).



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Technical Specifications

Frequency	10 MHz (available for applications from DC to 12 MHz)
Amplitude	1 Volts rms into 50 Ohm, 7 volts p-p into 1 KOhm or greater
Power required	AC power adapter- 110 to 220 Vac 50/60 Hz DC options \pm (10 to 15 Vdc) \pm (20 to 30 Vdc) \pm (40 to 60 Vdc) Less than 6 watts
Harmonic distortion	Less than 30 dB
Connectors	Input and outputs are BNC Power connector mates with On-Shore Technology P/N OSTTJ0411530.
Status signal	Pins 3,4 of the power connector (normally closed floating solid state relay)
Indicators	Status, self-test and 6 channel fault indicators 1 - Alert LED goes from green to red if built-in test fails.
Input impedance	50 Ohm for 10 MHz reference
Adjustment	\pm 2dB potentiometer or AGC option available

Environmental and Mechanical

Operating temperature	0 to 50°C non-condensing
Storage temperature	-40 to 70°C
Height	1.55"
Width	6.0" (body width)
Depth	6.0"
Weight	

Options

Galvanic isolation	Galvanic isolation option available for applications above 100 KHz	G
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