

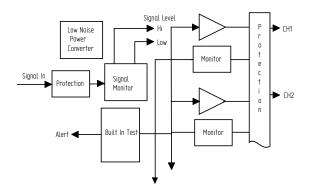
Company Datasheet #	ND0103-R	
Revision #:	С	
Date:	5-15-2020	

ND0103-R

Distribution Amplifier- 3 Channel

5 MHz, 10 MHz

KEY FEATURES



The ND0103-REF is a 3 channel Distribution amplifier that operates from 20KHz to 10MHz. It is offered in a 50 Ohm version for10 MHz. The compact package and flexible power configuration makes it a good choice for distributed systems and embedded applications. All channels are fault monitored and status is presented with front panel indicators and via a status relay. There is gain adjustment to compensate for system losses during installation. All outputs are transient protected and can withstand an indefinite fault. The two-stage design isolates the channels and prevents a large transient from damaging the source. Harmonic distortion is typically well below 35dB. Reverse polarity protected. Operation to DC allows pulse use.

Signal Level Indicators

A Hi and LOW indicator make sure the signal is within the operating range of the amplifier. A great field trouble shooting tool.

Versatile Compact Package

1.5x4x6 inch package is ideal for embedded systems or remote locations. This design is also very popular in distributed systems minimizing cable runs.

All Inputs and Outputs Protected

All input and outputs and transient and fault protected.

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)



Page #:	1 of 2	www.novuspower.com	
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Technical specifications

Frequency	1 to 10 MHz ±2 dB (bandwidth restricted for reference applications)	
Amplitude	3 Volts p-p 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 ±(10 to 15 Vdc)	
	±(20 to 30 Vdc)	
	±(40 to 60 Vdc)	
	Less than 6 watts	
	Power is connected to the top two pins on the connector.	
Harmonic Distortion	Less 30 dB	
Connectors	Input and outputs are BNC	
	Power connector mate is a TYCO 106527-4	
Status signal	The bottom two pins on the power connector connect to the status relay	
_	30 Volts, 100Ma- normally closed.	
Indicators	3- Green Channel status- flash during a fault condition	
	1- Alert LED goes from Green to RED in Built- in test fails.	
	Low and High range indictors go from green to red if the input signal	
	exceeds 6 volts peak to peak or falls below 1 volt peak to peak.	
Input Impedance	50 Ohm for 10 MHz Reference and 1K or greater for IRIG	
Adjustment	±1.5dB	
Phase Noise	-135dBc@1Hz, -145dBc@10Hz, -155dBc@100Hz	

Environmental and Mechanical

Operating temperature	0 to 50C non-condensing	
Storage temperature	-40 to 70C	
Height	1.55 inches	
Width	Body is 4 inches- with flanges 5 inches	
Depth	6 inches	
Weight		

Options

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

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Page #:	2 of 2	www.novuspower.com	
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