ULTRA LOW NOISE PRECISION DC COUPLED TRANSIMPEDANCE AMPLIFIER

- **Ultra Low Noise – down to 7 fA/√Hz**
- **High Gain – up to 1 GV/A**
- **Bandwidth - from DC to 150 kHz**
- **Accepts Current Source Inputs**

DESCRIPTION:

The ***341 Series*** are state-of-the-art precision DC coupled amplifiers designed for current source input applications where high gain and low noise are required.

SPECIFICATIONS:

Input	
Impedance	Virtual ground, DC coupled
Capacitance	See graphs on reverse for performance vs. capacitance. Indicate value of input capacitance (Add -___pF to part number.)
Drift	See table on reverse
Output	
Load	≥50 Ω
Swing	16 V pk-pk into 1 kΩ 7 V pk-pk into 50 Ω (-1 & -2) 12 V pk-pk into 50 Ω (-3)
Offset	Trimpot Adjustable
Gain	Trimpot adjustable (-3 only)
Polarity	Inverting (Add -INV to part number.) Non-Inverting (Add -NI to part number.)
Power	±15 VDC at 30 mA typical (no load)
Temperature	0° to +70°C
Connections	
Input	Pins
Output	BNC
Power	Filter feed-thru pins and ground lug
Bias Decoupled	Pin decoupled with 0.1 μF, 100 V capacitor
Size	3.12" x 1.50" x 1.09"

Specifications subject to change without notice.

APPLICATIONS:

High Bandwidth, DC coupled Photodetector Amplifiers

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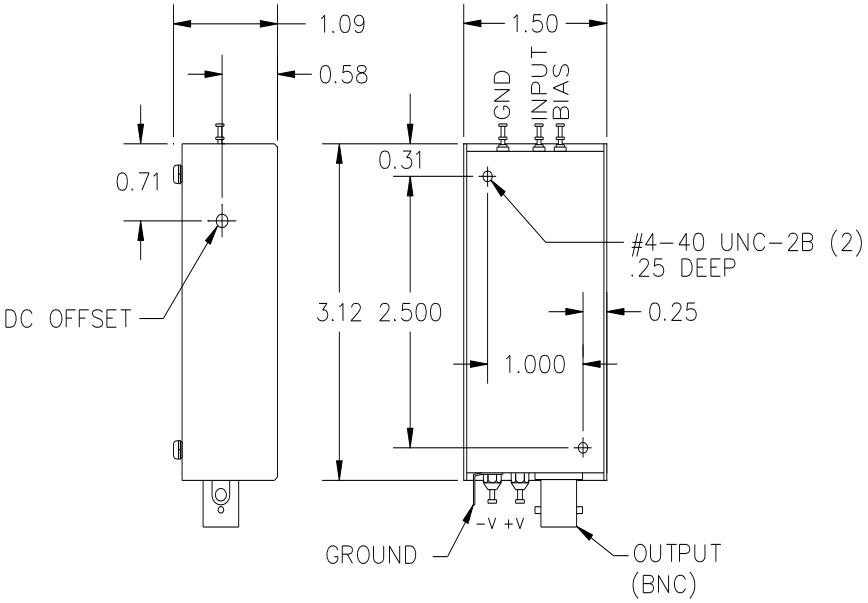
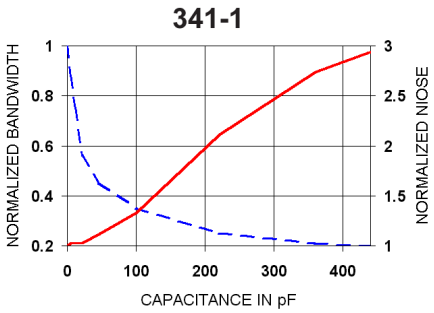
		MODEL NUMBER		
		GAIN		
		1 GV/A	100 MV/A	10-100 MV/A
BANDWIDTH (1) ±20%	DC – 2 kHz	**341-1**	------	------
	DC – 10 kHz	------	**341-2**	------
	DC – 150 kHz	------	------	**341-3**
	DC – 2 MHz	------	-------	------
NOISE (1) ±20%	Current Noise (Open Circuit Input)	7 fA/√Hz	20 fA/√Hz	0.58 pA/√Hz
DRIFT	Equivalent Input Current	24 fA/°C	114 fA/°C	10 pA/°C

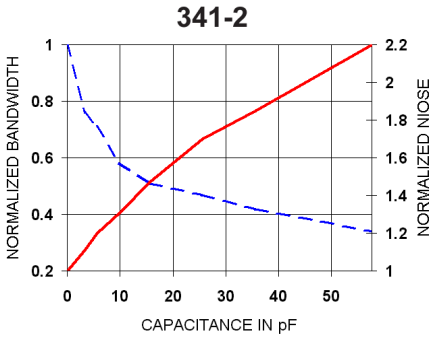
Typical Part Number: ***341-1-INV-1pF =***

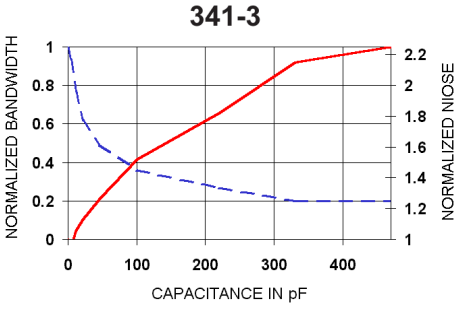
Bandwidth:	DC – 2 kHz
Gain:	1 GV/A
Noise:	7 fA/√Hz
Polarity:	Inverting
Input Capacitance:	1 pF

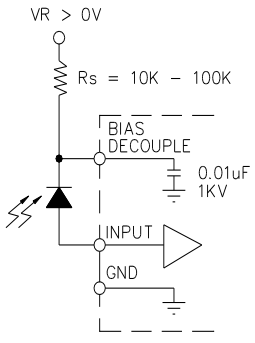


DIMENSIONS ARE IN INCHES

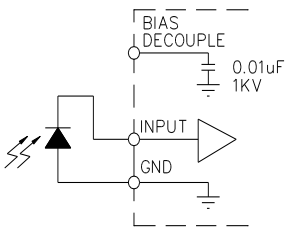








PHOTOCONDUCTIVE MODE



PHOTOVOLTAIC MODE

TYPICAL PHOTODETECTOR APPLICATIONS