52301 INSTRUMENTATION AMPLIFIER (PRELIMINARY)



Features:	Applications:		
 +25°C to +180°C Operation Ultra-Low Voltage Drift Low Offset Voltage Low Nonlinearity Low Noise High CMR High Input Impedance 	 Amplification of signals from sources such as: Strain Gages Thermocouplers RTDs Low Level Signals Medical Instrumentation 		

DESCRIPTION

The MII 52301 is a high accuracy hybrid-circuit instrumentation amplifier designed for signal conditioning requirements where very high performance is desired.

The input stage uses ultra-low drift, low noise technology to provide exceptional input characteristics.

PARAMETER	+25°C		+18	80°C ⁽¹⁾	
	MIN	MAX	MIN	MAX	UNITS
Gain Equation:					
A, = 1 + 40K/Rg					
Rated Output					
Voltage	±10		±10		V
Current	10		5		mA
Input Offset Voltage		±8		±16	mV
(vs Temp, 30 μV/°C)					
Input Bias Current					
Each Input		10		50	nA
Offset		10		50	nA
(vs Temp, .3na/°C)					
Input Voltage					
Common Mode Voltage Range		±10		±10	V
CMRR: Gain = 100	60		40		dB
Power Supply					
Voltage	±15		±15		V
Current		15		20	mA
Dynamic Response					
Full power Bandwidth	40		35		kHz
Unity Gain Bandwidth	.8		.8		MHz
(-3dB)					

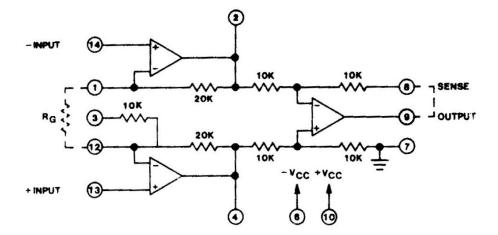
(1) 200°c operation is a possible option. Check with the Factory.

Micropac Industries cannot assume any responsibility for any circuits shown or represent that they are free from patent infringement. Micropac reserves the right to make changes at any time in order to improve design and to supply the best product possible.

MICROPAC INDUSTRIES, INC. HYBRID MICROELECTRONICS PRODUCTS DIVISION • 905 E. Walnut St., Garland, TX 75040 • (972) 272-3571 • Fax (972) 494-2281
www.micropac.com E-MAIL: hybridsales@micropac.com 09/19/01

.795 MII P/N PIN 1 INDICATOR 52301 Mii> MICROPAC 495 31757 Ά XXXX F.S.C.M. No. DATECODE SERIAL No. 52301 XXXX .140 PIN 1 INDICATOR .240 MIN. .250 MAX .050 R TYP .018 -.100 TYP. 00000000 T PIN 1 INDICATOR .300 .060 R Typ.





Micropac Industries cannot assume any responsibility for any circuits shown or represent that they are free from patent infringement. Micropac reserves the right to make changes at any time in order to improve design and to supply the best product possible.

MICROPAC INDUSTRIES, INC. HYBRID MICROELECTRONICS PRODUCTS DIVISION • 905 E. Walnut St., Garland, TX 75040 • (972) 272-3571 • Fax (972) 494-2281
www.micropac.com E-MAIL: hybridsales@micropac.com 09/19/01