

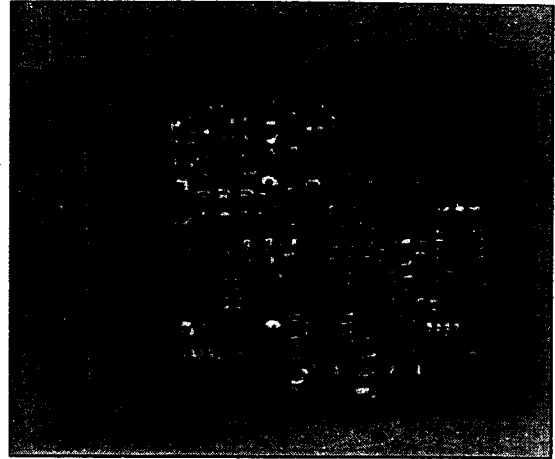


Charge Amplifier LV301 (preliminary data sheet)

Features

Low cost open frame version
 Semiconductor Reset
 CMRR +/- 5V
 Low Drift
 Frequency Response DC to 10KHz
 Accuracy < 0.5%

Options:
 Selectable Range
 Voltage and Current Output
 4-20mA (0-20mA)
 Advanced EMC Protection
 BNC, TNC, MiniCoax Connectors

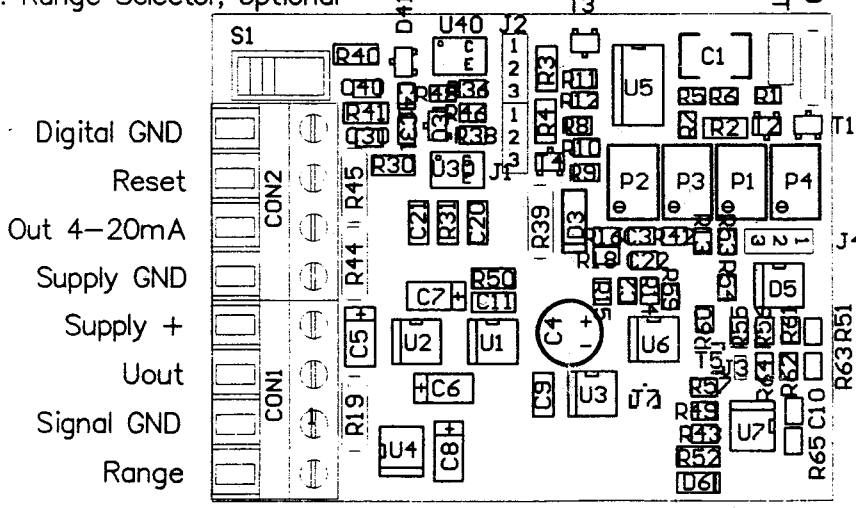


Technical Datas

Supply Voltage	+15..35VDC, recommended 24V
Current consumption	20mA, no load
Output current	4..20mA
Load (Vss+24V)	0..800 Ω, recommended 500Ω
Working Temperatur	-20°C...+70°C
Output voltage (opt)	0..±10V
Load	> 10kΩ
Time constant	> 50'000 s
Accuracy	< 0.5%
Zero Offset (Reset active)	< 0.4 o/oo of F.S
max. Drift (at 25°C)	< 0.15 pC/s
max. Drift (at 50°C)	< 1 pC/s
typ. Drift (at 25°C)	< 0.05 pC/s
Frequency Response	DC..10kHz (Acc. 2%)
Digital Inputs Low	< 7V
High	> 12V
Mechanical outline LV301	51 x 65 x 25 mm ³

PCB Drawing, Pin Connection

S1: Range Selector, optional



Functions of Potentiometers
 P1: Uout to Zero (Reset=active)
 P4: Iout 4mA (Reset=active)
 P3: Full Scale (Large Range)
 P2: Full Scale (Small Range)