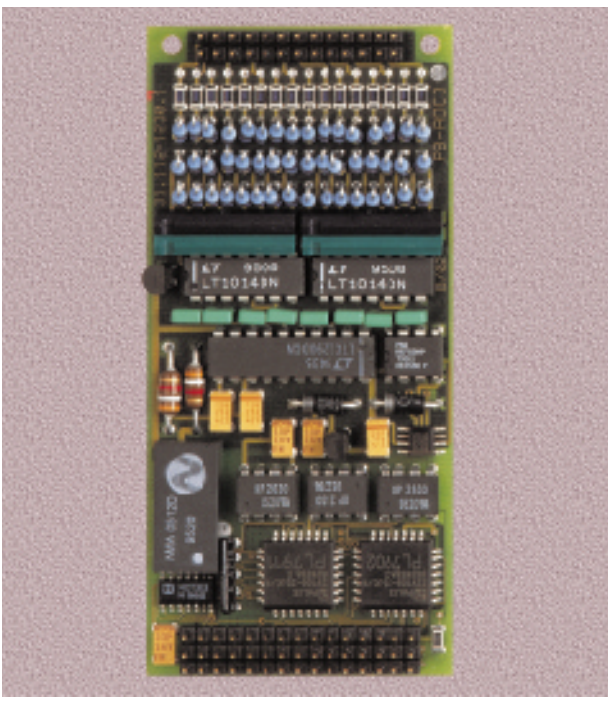
MODPACK
ANALOG &
DIGITAL
I/O

PB-ADC3

8-Channel Optoisolated Differential 12-bit A/D MODPACK



Characteristics

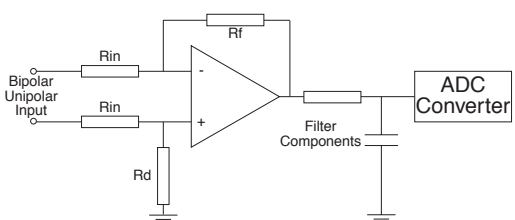
Function:	8 optoisolated differential inputs
Input Voltage Range:	0..5V DC, 0..10V DC, ±5V DC, ±10V DC
Input Current:	0..20mA (current version)
Input Impedance:	40kΩ (0..10V, ±10V ranges)
Input Frequency:	20kHz (max.)

A/D Converter

Resolution:	12-bit (unipolar); 11-bit + sign (bipolar)
Linearity Error:	±0.75 LSB
Conversion Time:	43µs
Temperature Drift:	10ppm/ºC

Common

Isolation:	500V DC between I/O and system
Power Req.:	+5V DC (± 5%), 235mA typ.
Temp. Ranges:	0ºC to +70ºC
	-40ºC to +85ºC (opt. E2)
	-55ºC to +85ºC (storage)
Humidity:	0% to 95% non-condensing



An 8 channel 12-bit optoisolated A/D piggyback for use with PEP's range of dedicated ModPack carrier boards. All inputs are differential and are galvanically isolated from the system supply. Bipolar or unipolar conversion may be jumper selected and the choice between voltage conversion or current conversion is indicated by the version being ordered. Stability and linearity are assured across the complete operating temperature range while board specific calibration data remain stored in an on-board EEPROM for software gain/offset correction.

Product	Description	Order No.
PB-ADC3	8 channel optoisolated piggyback for differential analog inputs in the range 0..5V DC, 0..10V DC, ±5V DC or ±10V DC for use with PEP's dedicated range of carrier boards	3128
PB-ADC3	8 channel optoisolated piggyback for differential analog inputs in the range 0..20mA for use with PEP's dedicated range of carrier boards	3129

CERTIFIED
DIN ISO 9001
QUALITY SYSTEM
Reg. No. 0548 - 02

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