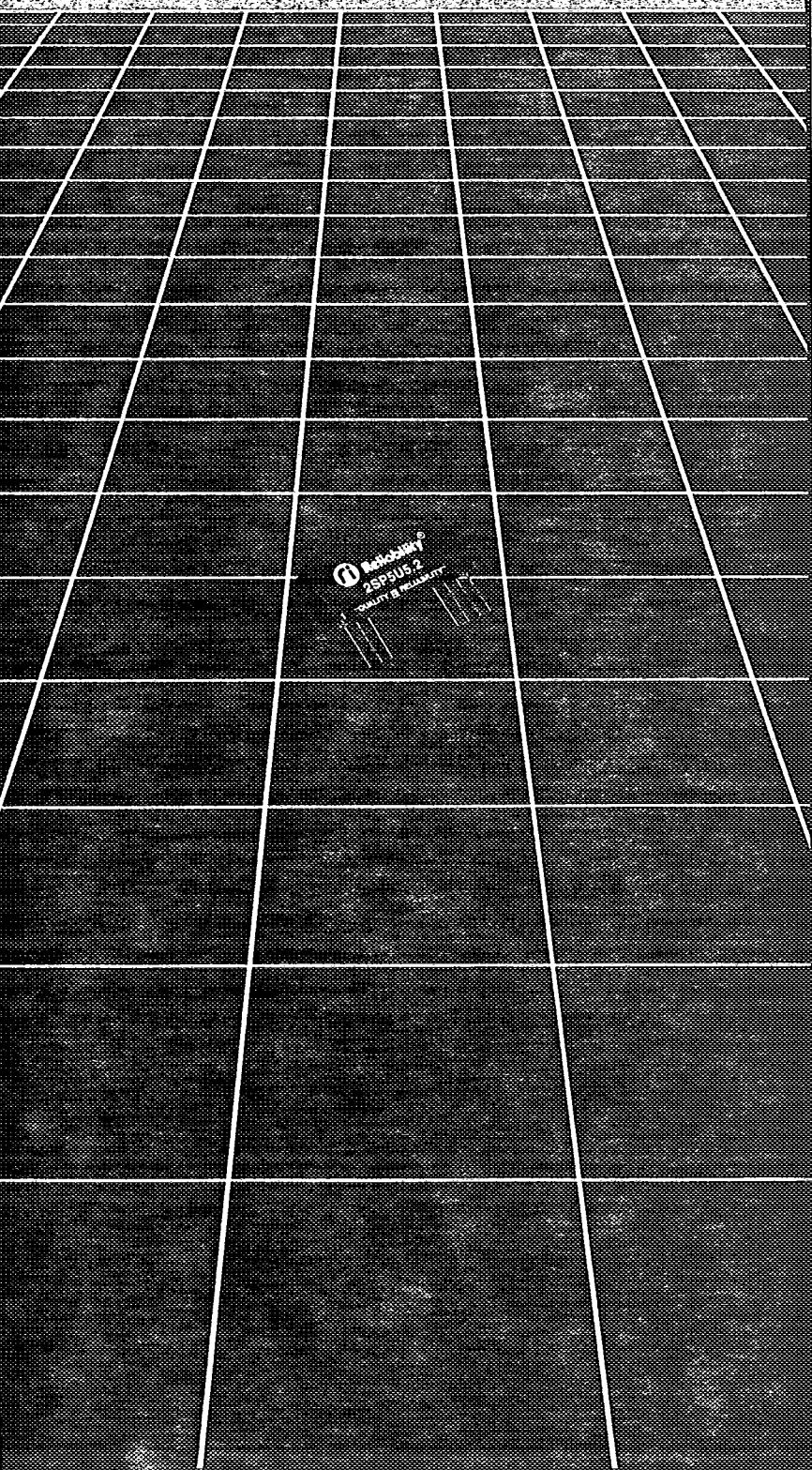


DC/DC CONVERTERS FOR ECL APPLICATIONS

2SP5U5.2



FEATURES

- Single in-line package for tight applications
- PC mountable
- Input/Output isolated
- No derating to 71°C
- Meets FCC Sec 15 Sub Part J, A&B
- 100% burned-in and triple tested
- Short circuit protected
- Efficiency 75%
- 3 year warranty

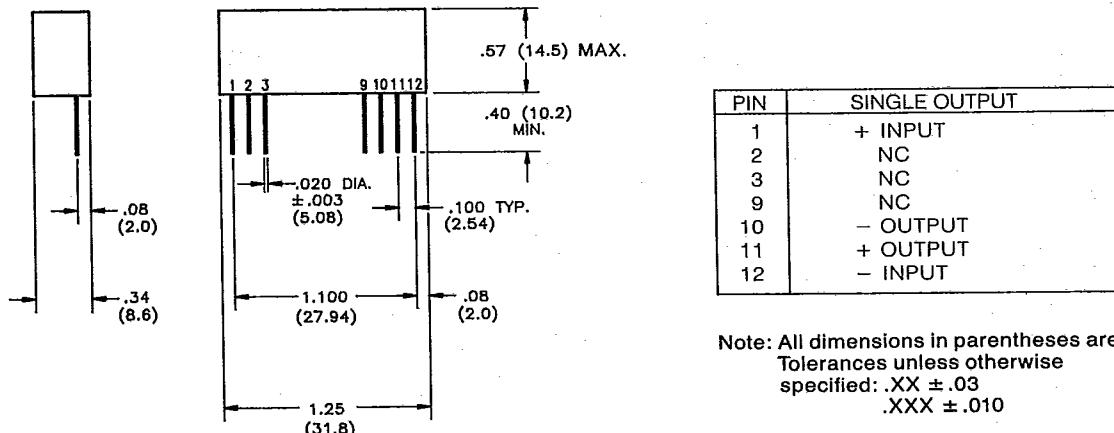
GENERAL DESCRIPTION

Designed specifically for ECL applications, the 2SP5U5.2 DC/DC Converter provides the ideal solution for the designer who needs on-board power for ECL circuitry. The 2SP5U5.2 requires only .413 square inches of board space and delivers up to 2 watts of power with a typical efficiency of 75%. The converter is encapsulated and operates over its full specified temperature range without derating or heat sinking.

GENERAL ELECTRICAL SPECIFICATIONS

(Specifications at Nominal Input and 25°C)

| PARAMETER | LIMIT | CONDITIONS |
|--------------------------|--------------------------------|------------------------|
| Input Voltage Range | 4.75 - 5.25 VDC | |
| Maximum Input Voltage | 5.5 VDC | |
| Input Current | .600 A (Max.) | Nom. Line at Full Load |
| Input Filter | Filter Capacitor | |
| Input/Output Isolation | | |
| Voltage | 500 VDC (Min.) | |
| Resistance | 10 ³ megohms (Min.) | Typical |
| Power Efficiency | 75% | Nom. Line at Full Load |
| Output Voltage | 5.2V | Nom. Line at Full Load |
| Output Voltage Accuracy | ± 3% | |
| Output Current | 450 ma (Max.) | |
| Load Regulation | See Graph | |
| Minimum Load Required | 50 ma | |
| Line Regulation | See Graph | 20 HZ-20MHZ Bandwidth |
| Output Noise/Ripple | 100 mV, P-P (Max.) | |
| Short Circuit Protection | Momentary | Typical |
| Switching Frequency | 90 KHZ | |
| Operating Temperature | -25°C to + 71°C | To 71°C |
| Derating | None | |
| Storage Temperature | -55°C to + 125°C | |

MECHANICAL DIMENSIONS AND PIN CONNECTIONS**PERFORMANCE DATA**