

DC/DC CONVERTERS FOR ECL APPLICATIONS

2SP5U5.2

Reliability
2SP5U5.2
QUALITY IS RELIABILITY

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

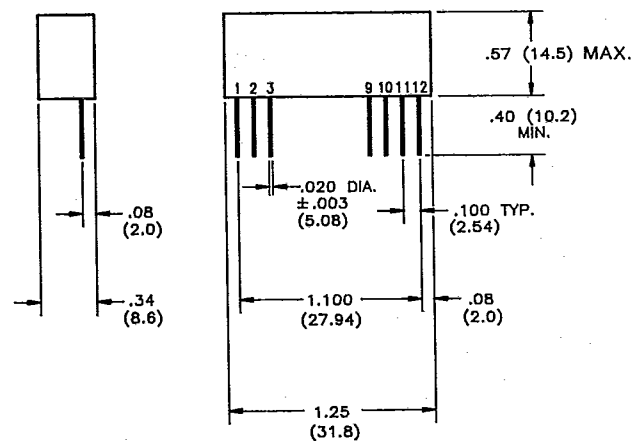
GENERAL DESCRIPTION

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.)	
Power Efficiency	75%	Typical
Output Voltage	5.2V	Nom. Line at Full Load
Output Voltage Accuracy	± 3%	Nom. Line at Full Load
Output Current	450 ma (Max.)	
Load Regulation	See Graph	
Minimum Load Required	50 ma	
Line Regulation	See Graph	
Output Noise/Ripple	100 mV, P-P (Max.)	20 HZ-20MHZ Bandwidth
Short Circuit Protection	Momentary	
Switching Frequency	90 KHZ	Typical
Operating Temperature	-25°C to +71°C	
Derating	None	To 71°C
Storage Temperature	-55°C to +125°C	

MECHANICAL DIMENSIONS AND PIN CONNECTIONS

PIN	SINGLE OUTPUT
1	+ INPUT
2	NC
3	NC
9	NC
10	- OUTPUT
11	+ OUTPUT
12	- INPUT

Note: All dimensions in parentheses are mm.
Tolerances unless otherwise
specified: .XX ± .03
.XXX ± .010

PERFORMANCE DATA