

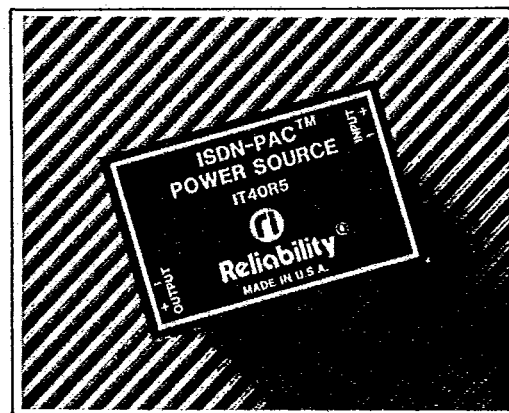
ISDN-PACTM

ONE WATT DC/DC CONVERTER

Model 1T40R5

KEY FEATURES

- Wide Input Range 24-60 VDC
- Efficiency Exceeding 80%
- L-C Input Filter
- Short Circuit Protection
- Overvoltage Protection
- Input/Output Isolation
- No Derating
- Designed To Meet FCC Sect. 15 Sub Part J, Class B Radiated and Conducted
- 100% Burn-in and Triple Tested
- 3 Year Warranty



SPECIAL FEATURES

- High Efficiency (60% minimum, 65% typical) at 25 mw input power

APPLICATIONS

- ISDN Equipment
- Distributed Power
- Battery Powered Systems
- Analog Systems

DESCRIPTION

The one watt ISDN-PAC DC/DC Converter has been specifically designed to meet the requirements of CCITT recommendation I.430. In the restricted mode with 25 mw of input power, a minimum efficiency of 60% has been achieved. At an input power of one watt, the efficiency is 80% minimum. Output voltage change is 0.50 volts for loads between 2 ma to 160 ma and line changes from 24 to 60 VDC.

GENERAL ELECTRICAL SPECIFICATIONS

(Specifications at 25°C Unless Otherwise Noted)

<u>PARAMETER</u>	<u>LIMIT</u>	<u>CONDITIONS</u>
Input Voltage Range	24 - 60 VDC	
Maximum Input Voltage	72 VDC	1 second
Input Filter	L-C Section	
Input/ Output Isolation	500 VDC	
Output Voltage	5.0 VDC (NOM)	40V input, 160 ma load
Output Current	160 ma (Max.) 1 ma (Min.)	
Output Voltage Range	4.75-5.5 VDC	24-60V input, 2-160 ma load
Output Ripple	100mv (p.p.)	20 HZ to 20 MHZ Bandwidth

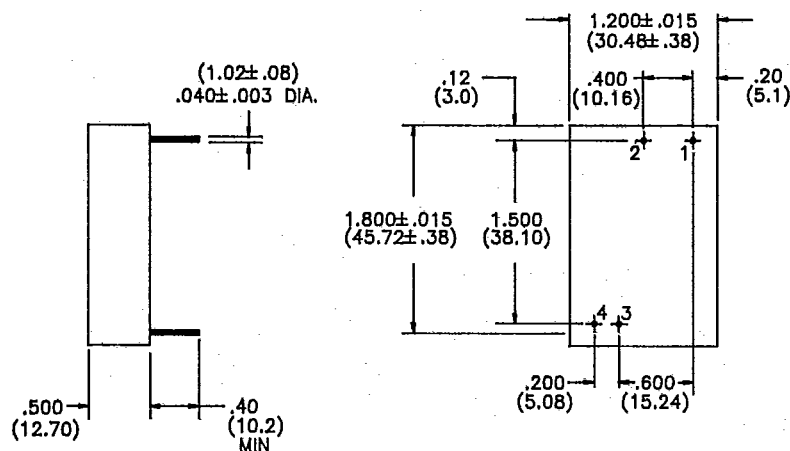
RELIABILITY® INCORPORATED
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 PHONE: (713) 492-0550 ■ FAX: 492-0615

 **Reliability®**

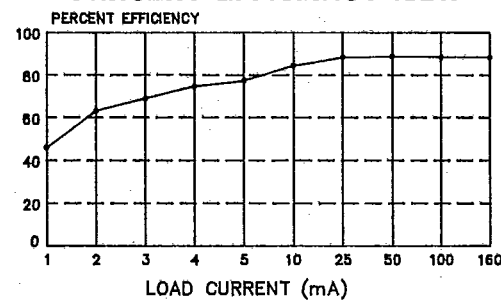
GENERAL ELECTRICAL SPECIFICATIONS (continued)

(Specifications at 25°C Unless Otherwise Noted)

PARAMETER	LIMIT	CONDITIONS
Efficiency	80% (Min.) 84% (Typical) 60% (Min.) 65% (Typical)	40 VDC input 160 ma load 40 VDC input 3 ma load
Operating Temperature	-25°C to 55°C	
Short Circuit Protection	Continuous	
Overvoltage Protection	5.6 VDC	

MECHANICAL SPECIFICATIONS

PIN	FUNCTION
1	+INPUT
2	-INPUT
3	-OUTPUT
4	+OUTPUT

PERCENT EFFICIENCY ISDN

AVERAGE OF SIX UNITS.

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