

Ferranti Venus

"CT" SERIES CENTER TAPPED MEDIUM VOLTAGE POWER SUPPLIES

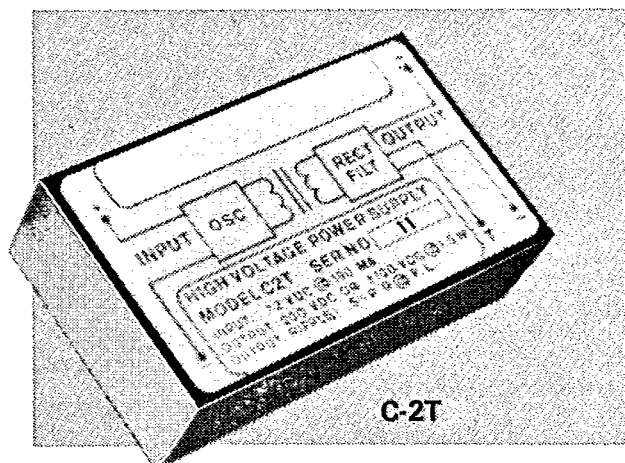
No Minimum Load Required!

Variable Input DC to Medium Voltage DC Converter

<u>MODEL</u>	<u>INPUT VOLTAGE</u>	<u>OUTPUT VOLTAGE</u>	
C½T	5-12 VDC	± 10 to ± 25 VDC	} AT 1.6 WATTS
C2T	5-12 VDC	± 40 to ± 100 VDC	
C8T	5-12 VDC	± 150 to ± 400 VDC	

FEATURES:

- High Input/Output Isolation
- Small, Flat, Lightweight
- Low Cost
- Input/Output Floating
- Output Proportional To Input
- Operates on Only 12 VDC
- Mounts on Printed Boards
- Short Circuit and Reverse Polarity Protected
- Off-The-Shelf Delivery



DESCRIPTION:

The CT-series is intended to satisfy the need for a miniature low-cost, isolated voltage source. The package is designed to be operated from a 12 volt source having either plus or minus polarity. Isolation of the output from the input allows the user to have an output voltage of either polarity as well as being able to ground the output voltage at a remote point. A series diode protects the circuit against reversed input polarities. The unit is protected against shorts or opens across its

output terminals. Reduced output ripple can be achieved by connecting additional capacitance across the output pins external to the unit. The Ferranti Venus "CT" series medium voltage converters are fully encapsulated, 100% tested before shipment, and protected by warranty against defects in material or workmanship. The tap provided on the CT-series units allows the user to generate plus and minus outputs simultaneously.

APPLICATIONS:

Photo Detectors • CRT Displays • Electrostatic copiers • CRT Graphics and Information Displays • Oscilloscopes



T-57-11

ELECTRICAL CHARACTERISTICS:

Input Voltage 5 to 12 VDC
 Input Current Refer to Graph Below
 Regulation 5% (½ Load to Full Load)
 Ripple p-p 0.5%
 Insulation Strength 3000V Input/Output

PHYSICAL CHARACTERISTICS:

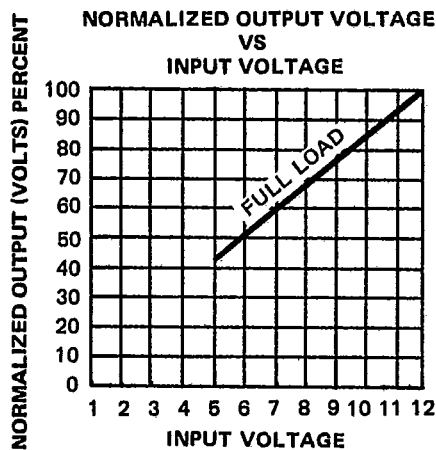
Dimensions 1.5" x 2.5" x 0.75"
 Volume 2.8 cu. in.
 Weight 4 oz.
 Packaging Solid encapsulation
 Terminations 5 PC Pins (.043 Dia. hole)

ENVIRONMENTAL CHARACTERISTICS:

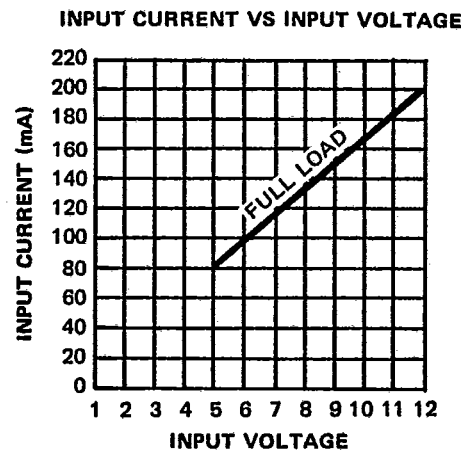
Temperature Range 0°C to +65°C (Case)
 Temp Coeff .025%/°C
 Vibration 20g's per Mil-Std-810, Method 514, Curve E, Figure 514-3
 Shock 40g's per Mil-Std-810, Method 516, Proc IV

MODEL	INPUT	NOMINAL OUTPUT	OUTPUT VOLTAGE RANGE	Max Load Both	Max Load One Tap Only
C½T	5V to 12V	±25V or 50V	20V to 50VDC (center tapped)	32mA	64mA
C2T	5V to 12V	±100V or 200V	80V to 200VDC (center tapped)	8mA	16mA
C8T	5V to 12V	±400V or 800V	300V to 800VDC (center tapped)	2mA	4mA

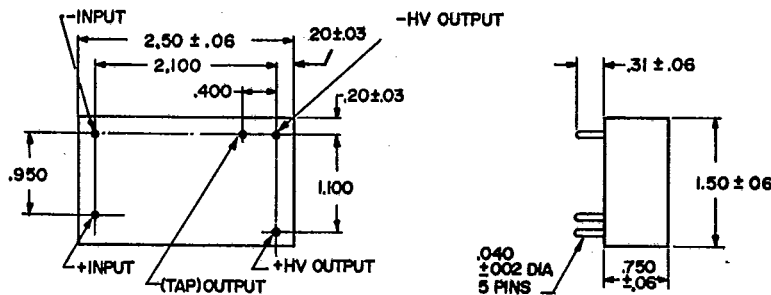
TYPICAL PERFORMANCE @ 25°C



Full Load = $\frac{V \text{ Max.}}{I \text{ Max.}}$



Full Load = $\frac{V \text{ Max.}}{I \text{ Max.}}$



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