

PF104320

Power Supply Assembly

BURLE

Accessories for Side-Window Photomultipliers

- High Voltage Power Supply, Voltage Divider Network, and Tube Socket
- Low Cost
- Reliable
- Up to -1250 Volt
- Compact, Solid State Design
- Short Circuit Protected
- Current Limited

BURLE PF104320 is a small, low-cost solid-state power supply assembly designed for use with side-window photomultipliers such as the 931B. This device has an integral voltage-divider network of approximately 5 megohms, no by-pass capacitors, and an integral socket which fits all 28 mm (1-1/8') diameter, 9-stage, side-window photomultipliers having small-shell submagnal bases.

BURLE PF104320 provides an output voltage (-110 to -1250 Volt dc) that varies directly with input voltage.

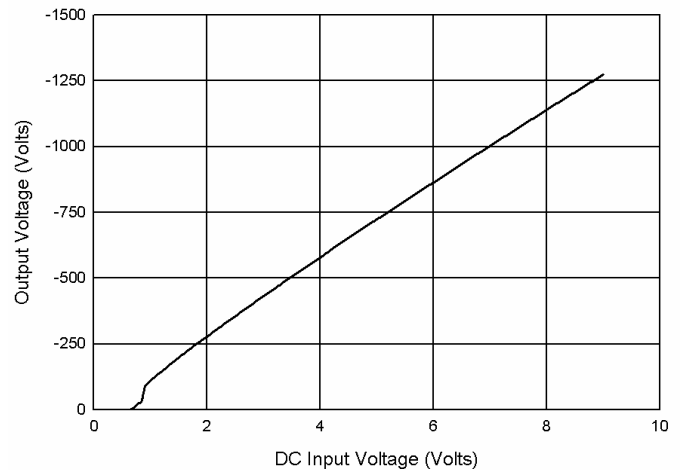


Figure 1 - Typical Input-Output Voltage Characteristic - PF104320
(measured with 1 GΩ High Voltage Probe)

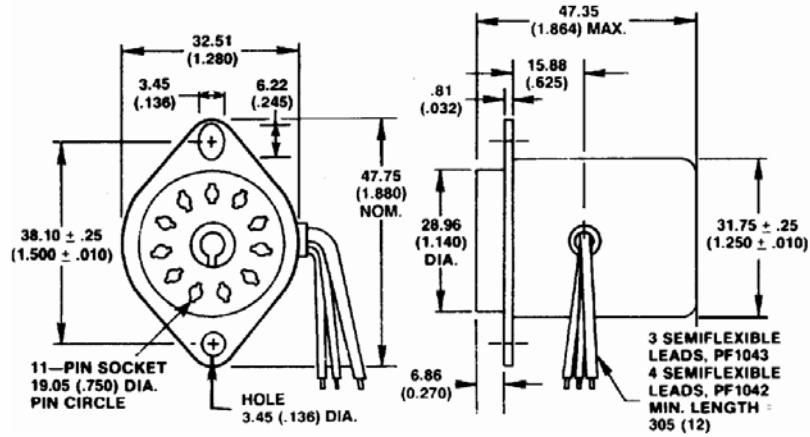
Electrical Characteristics

DC Output Voltage (V_{out})	-110 to -1250	V
DC Output Current at Max. V_{out}	250	μ A
DC Input Voltage (V_{in})	1 to 9	V
Input Current (I_{in}) at Max. V_{out}	< 70	mA
Efficiency at Max. V_{out}	60	%
Peak-to-Peak Ripple at the anode at Max. V_{out} (Typical)	< 3	mV
Temperature Coefficient (Typical)	0.02	%/°C
Weight (Approx.)	65 (2.3)	g (oz)
Operating Temperature Range	-10 to +60	°C
Total Resistance of Integral Voltage Divider Network	5.1	MΩ

PF104320

	Units
-110 to -1250	V
250	μ A
1 to 9	V
< 70	mA
60	%
< 3	mV
0.02	%/°C
65 (2.3)	g (oz)
-10 to +60	°C
5.1	MΩ





LS-6052R1

Dimensions in millimeters. Dimensions in parentheses are in inches.

Lead Connections

Positive DC Input Voltage (V_{in})	Red
Ground ¹	Black
Anode Output Signal ²	Coax

1. The ground (black) lead is common to the shield of the anode-output coaxial lead.
2. The center conductor connects directly to the tube anode. There is no internal load.

Figure 2 - Dimensional Outline - PF104320

WARNING - Personal Safety Hazards

Electrical Shock - The output voltages developed by these devices present a shock hazard.

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