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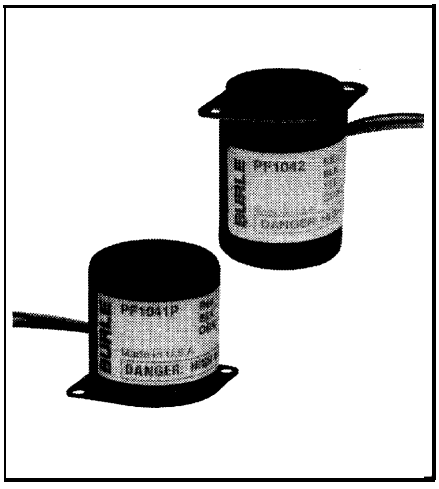
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PF1041 N, PF1041 P, PF1042, PF1043
Power Supply Assemblies



PF1041N, PF1041P -
High Voltage Power Supply

PF1042, PF1043 -
High Voltage Power Supply, Dynode Divider, and Tube Socket for use with Burle Side Window Photomultipliers

- Low cost
- Reliable
- up to 1500 volts
- Compact, Solid State Design

BURLE PF1O41N and PF1O41P are small, low-cost solid-state power supplies capable of providing up to 1500 volts DC output at 1 milliampere.

The PF1041N is designed primarily for use with photomultipliers operating in the negative voltage mode; the PF1O41P, for photomultipliers operating in the positive voltage mode. However, either can be used in any application requiring a stable, efficient, low-ripple power supply for output loads of up to 1.5 watts. A variable voltage, 0 to 10 volts DC, is needed for supply operation. High voltage output is proportional to DC input.

BURLE PF1042 and PF1043 are small, low-cost solid-state power supply assemblies designed for use with side-window photomultipliers such as the 931A. These devices have 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 PF1042 provides a regulated output voltage (-500 to -1250 volts) that may be controlled by either resistance or voltage programming.

The PF1043 provides an output voltage (0 to -1250 volts) that varies directly with input voltage.

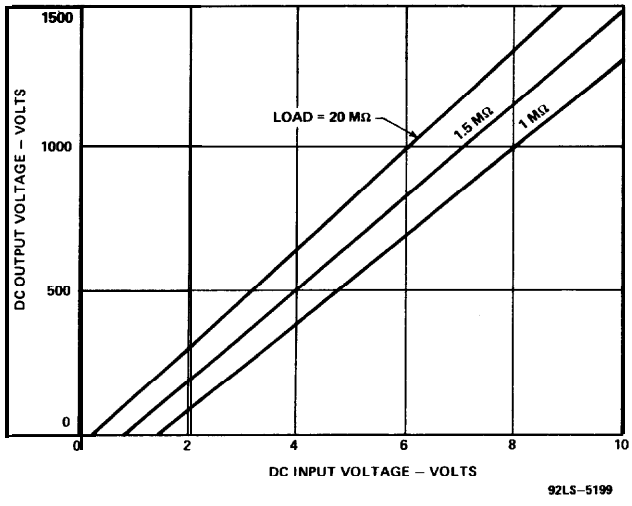


Figure 1 - Typical Input-Output Voltage Characteristics - PF1041N, PF1041P

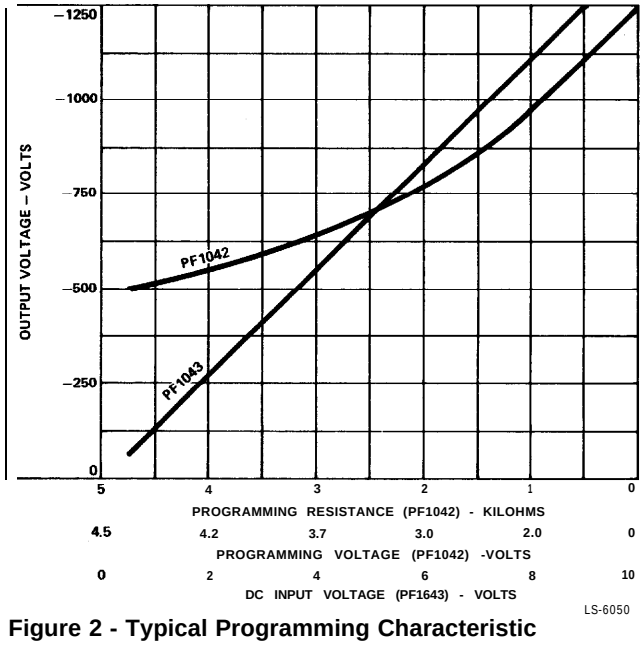
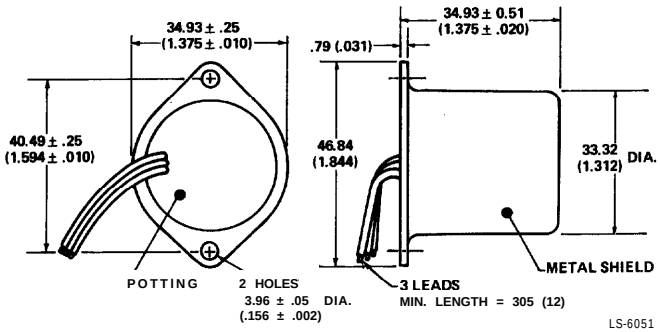


Figure 2 - Typical Programming Characteristic (Programming Lead to Ground) - PF1042
Typical Input-Output Voltage Characteristic - PF1043

BURLE Electron Tubes

Electrical Characteristics

	PF1041N	PF1041 P	PF1042	PF1043	Units
DC Output Voltage (V_{out})	0 to -1500	0 to 1500	-500 to -1250	0 to -1250	V
DC Output Current at Full Load	Up to 1	Up to 1			mA
DC Input Voltage (V_{in})	0 to 10	0 to 10	12 to 15	0 to 9	V
Input Current (I_{in}) at Max. V_{out}	--		‹100	‹100	mA
Efficiency at Full Load	>65	>65			%
Peak-to-Peak Ripple at Max. V_{out} and Full Load	<0.05	‹0.05	‹0.05	<0.05	%
Line Regulation	--		co.1	--	%
Load Regulation	--		co.1	--	%
Typical Temperature Coefficient	0.01	0.01	0.01	0.01	%/°C
Weight (Approx.)	79 (2.8)	79 (2.8)	65 (2.3)	65 (2.3)	g (oz)
Operating Temperature Range	-10 to +60	-10 to +60	-10 to +60	-1O to +60	°C
Total Resistance of Integral Voltage-Divider Network	--		5.1	5.1	Mohm



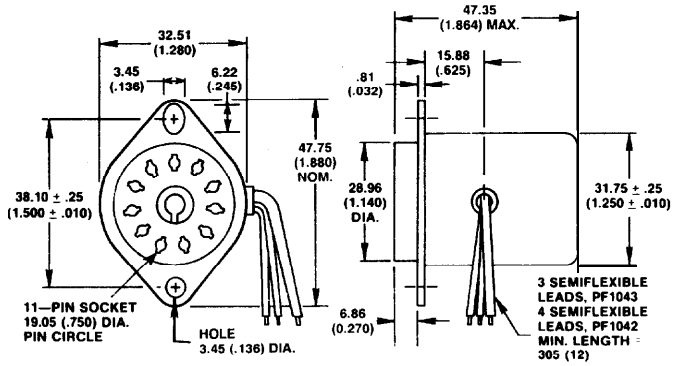
Dimensions in millimeters. Dimensions in parentheses **are** in inches.

Lead Connections

Positive DC Input Voltage (V_{in})[1]	Red
Ground[2]	Black
DC Output Voltage (HV)	Orange

1. The input may be current limited or fused for 250 mA for short circuit protection.
2. The black lead is common for both V_{in} and HV. The shield is intentionally ungrounded; it should obtain ground from its mounting in the system to minimize oscillator radiation.

Figure 3 - Dimensional Outline - PF1041 N, PF1041 P



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
Programming (PF1042 only)[3]	Yellow

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.
3. Programming adjustments are accomplished between yellow and black leads.

Figure 4 - Dimensional Outline - PF1042, PF1043

WARNING - Personal Safety Hazards

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

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PF1041N

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