

Integrated PMT Socket

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EMCO
High Voltage Corporation

0 to -1000V, 0 to -1250V and 0 to -2000V
J Series



The J Series is a line of integrated assemblies that incorporate a precision high voltage bias supply and a low noise dynode string mounted on an eleven pin, nine stage, 1 1/8 (28mm) diameter PMT socket. PMT users can now benefit from the performance of an ultra-stable, low ripple high voltage bias supply while realizing the reduced design and assembly time associated with an integrated assembly. The precision regulated power supply is linearly programmable from 0 to 100% via a 0 to 5 volt analog control signal. Output voltage stability is typically less than 50 ppm/°C. Ripple is less than 0.001% p-p. Low noise and low leakage current have been achieved by utilizing special high voltage design and manufacturing techniques. The

power supply features an enclosed pot core transformer and internal shielding to eliminate electromagnetic interference with the PMT. A 1000:1 output voltage monitor provides a constant indicator of the bias voltage with an accuracy of better than 2% and a temperature coefficient of less than 50ppm/°C. This assembly encloses all of the high voltage necessary to operate a PMT, allowing the equipment manufacturer to eliminate special high voltage design and assembly requirements. Three models are available with voltages of 0 to -1000V, 0 to -1250V and 0 to -2000V. Technical assistance is readily available. Call, fax or e-mail your requirements for immediate attention.

FEATURES

- Ultra Stable High Voltage
- Very Low Ripple
- Low Leakage Current
- 0 to 100% Linear Programmability
- Voltage Monitor
- Very Low EMI/RFI
- High Performance/Low Cost
- Easily Modified

OPTIONS

- Various Dynode Configurations
- Proportional Models Available Positive Output Voltage
- Alternate Connectors
- Alternate Sockets
- Low Power Consumption

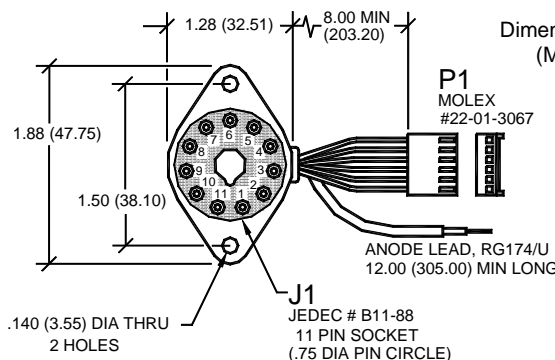
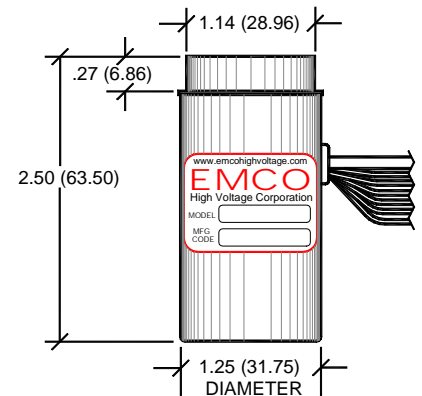
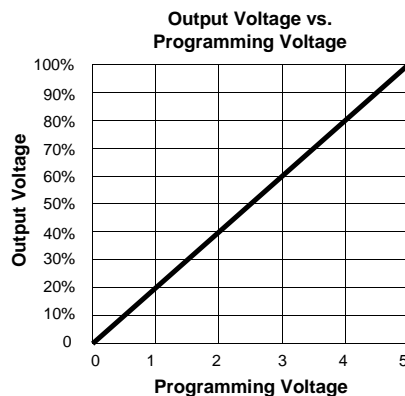
PHYSICAL CHARACTERISTICS

- Size: See Drawing (Dimensions in inches)
- Weight: 4.5 ounces (128 grams)
- Case: Zinc Plated Steel
- Case Finish: Powder Coat Flat Black

ELECTRICAL SPECIFICATIONS

- Input Voltage Range: 11.5 to 16.0V
- Input Current: See Table
- Output Voltage: See Table
- Ripple: <0.001% p-p
- Load Regulation: <0.001%
- Line Regulation: <0.25%
- Temperature Coefficient: <50 ppm/°C typically
- Voltage Divider: 5.1 Meg Ohm
- Operating Voltage Range: -10° to +50°C

Model	Output Voltage	Input Current	Ripple	Voltage Monitor 1000:1
J10N	0 to -1000V	<100mA	<0.001%p-p	0 to 1V
J12N	0 to -1250V	<100mA	<0.001%p-p	0 to 1.25V
J20N	0 to -2000V	<190mA	<0.001%p-p	0 to 2V



Dimensions are in inches
Dimensional Tolerances: ± .03 (.76mm)
(Metric equivalents in parenthesis)

P1	Function
1	(+) VOLTS IN
2	(-) VOLTS IN
3	0 TO 5V CONTROL
4	CONTROL RETURN
5	CASE GROUND
6	VOLTAGE MONITOR 1000:1

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We reserve the right to make changes without notification