

The C9773 is a high voltage power supply socket assembly for 25 mm (1") diameter head-on photomultiplier tubes (PMT), incorporating a regulated high voltage power supply and an active voltage divider. It enables simple yet stable PMT operations with extended DC output linearity by only supplying +15 V and connecting to a potentiometer or a 0 V to +5 V for high voltage adjustments.

FEATURES

- Superior DC Output Linearity
- Fast High Voltage Programming Response
- Wide High Voltage Output Range
- Low Ripple Noise
- Compact and Lightweight

SPECIFICATIONS

GENERAL

Parameter	Description / Value	Unit
Applicable PMTs	25 mm (1 inch) Dia. head-on types (R1924A, R1925A, R3550A, R5070A)	—
Input Voltage	+15 ±1	V
Input Current	50	mA
Linear DC Output Current of PMT ^(A) at -1000 V	Typ. 90	μA
Anode Ripple Noise (HV=1000 V, RL=1 MΩ +25 pF)	1	mV
Operating Ambient Temperature / Humidity ^(B)	0 to +40 / 85 Max.	°C / % RH
Storage Temperature / Humidity ^(B)	-15 to +60 / 90 Max.	°C / % RH
Weight	60	g

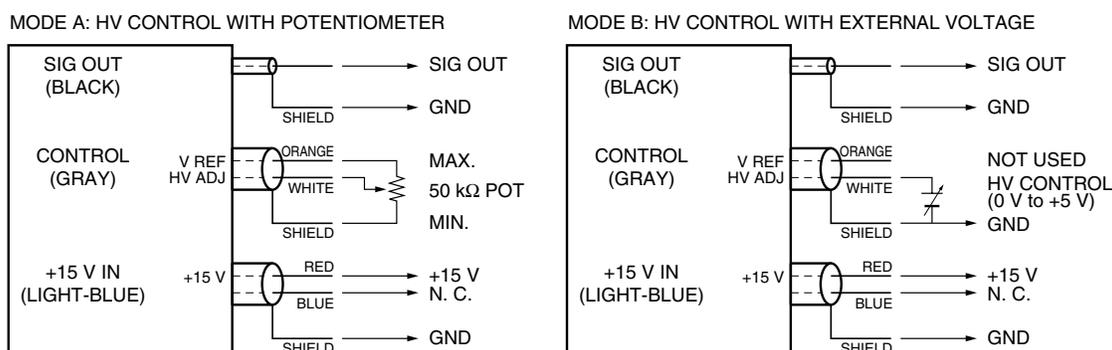
NOTE: ^(A)Within: ±2 % linearity ^(B)No condensation

HIGH VOLTAGE POWER SUPPLY

Parameter	Description / Value	Unit
Output Voltage Range	0 to -1250	V
Line Regulation Against ±1 V Input Change	Typ. ±0.01	%
High Voltage Control	0 V to +5 V or external 50 kΩ potentiometer	—
Settling Time ^(B)	Vcont: 4 V to 2 V	300
	Vcont: 2 V to 4 V	80
Temperature Coefficient of High Voltage Output	Typ. ±0.01	%/°C

NOTE: ^(B)To be shown with the time period of setting to stable high voltage from changing control voltage (Vcont).

Figure 1: Wire Connection



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HIGH VOLTAGE POWER SUPPLY SOCKET ASSEMBLY (DP-TYPE) C9773

Figure 2: Schematic Diagram

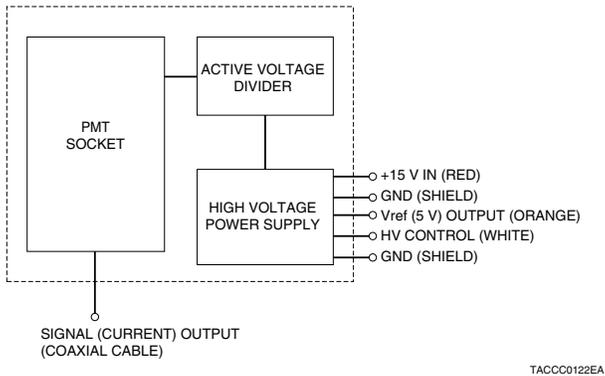


Figure 3: High Voltage Controlling Characteristic

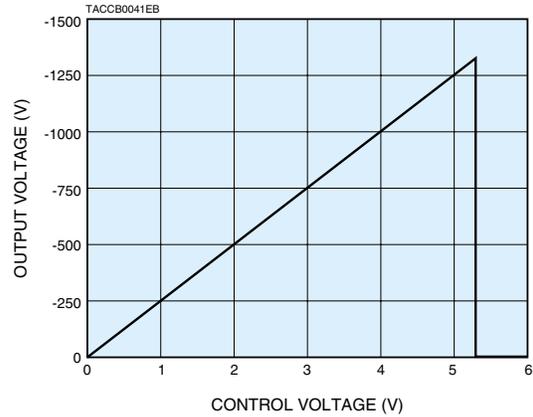


Figure 4: Linearity Characteristics

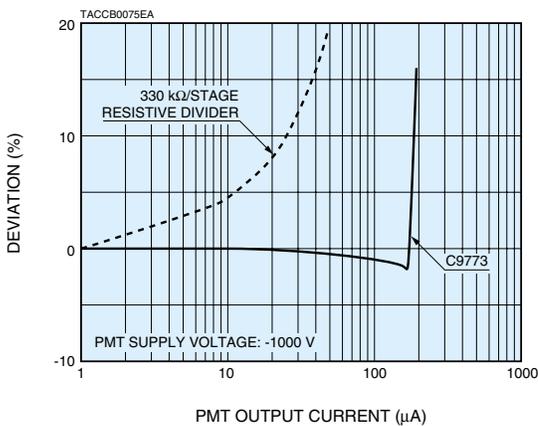
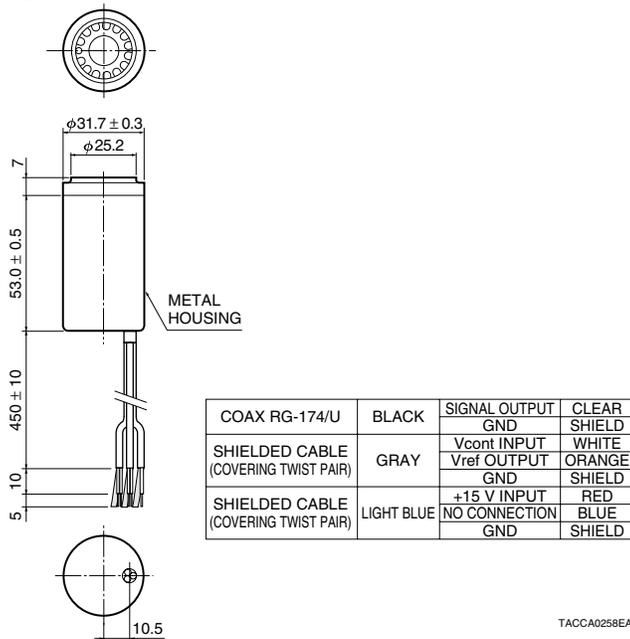


Figure 5: Dimensional Outline (Unit: mm)



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