

DP TYPE SOCKET ASSEMBLY FOR 28 mm (1-1/8 INCH) DIA. SIDE-ON PHOTOMULTIPLIER TUBE C8728

C8728 is a DP type socket assembly for 28 mm(1-1/8 inch) diameter side-on photomultiplier tubes, incorporating a regulated high voltage power supply and an active voltage divider. It enables simple and stable PMT operations with extended DC output linearity by only supplying +15 V and connecting a high voltage control voltage of 0 V to +3.6 V.

FEATURES

- Superior DC Output Linearity
- Fast High Voltage Programming Response
- Low Ripple/Noise



ACCF0181

SPECIFICATIONS

Parameter			Description / Value	Unit
Applicable PMT			28 mm(1-1/8 inch) Dia. side-on types	—
Input Voltage			+15 ± 1	V
Input Current at Maximum High Voltage		Typ.	40	mA
Output Voltage Range			0 to -900	V
Linear DC Output Current of PMT ^(a)	at -900 V	Typ.	100	μA
	at -400 V	Typ.	40	
Line Regulation Against ±1 V Input Change			±0.01	%
Ripple/Noise (p-p) in High Voltage Output			0.01	%
High Voltage Control Input			0 to +3.6	V
High Voltage Programming Response ^(b)		Typ.	60	ms
Temperature Coefficient of High Voltage Output		Typ.	±0.01	%/°C
Operating Temperature ^(c)			0 to +40	°C
Storage Temperature			-15 to +60	°C

NOTE: ^(a) Within ±2 % linearity

^(b) For 0 % to 99 % high voltage change

^(c) Under no condensation

Figure 1: Linearity Characteristics

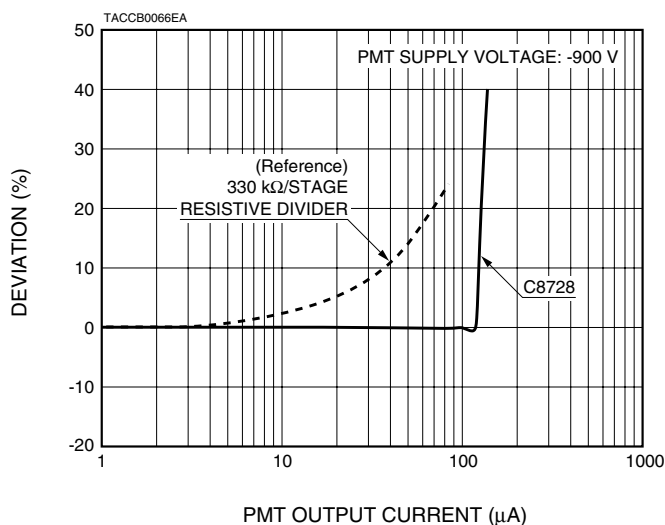
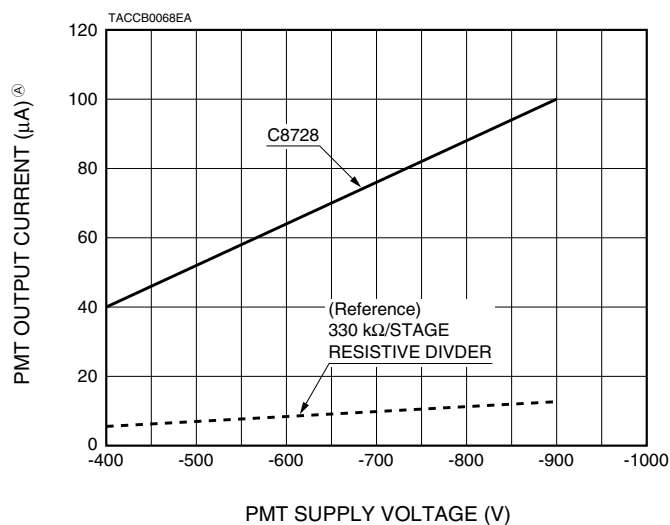


Figure 2: Practical PMT DC Output Limits



^(A) within ±2 % linearity

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Figure 3: High Voltage Controlling Characteristics

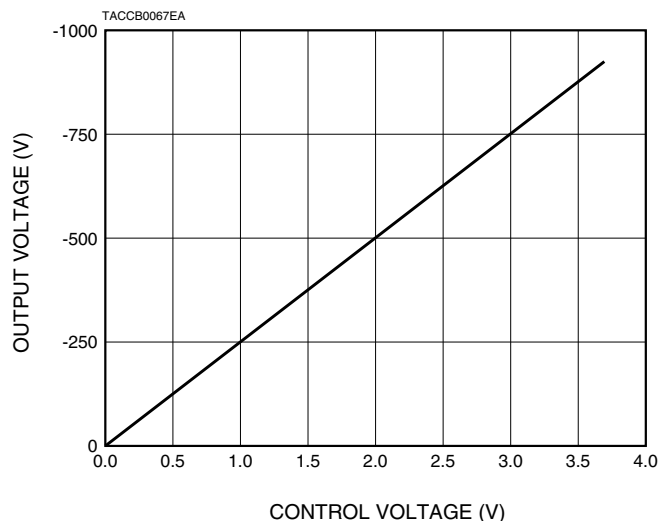


Figure 4: Schematic Diagram

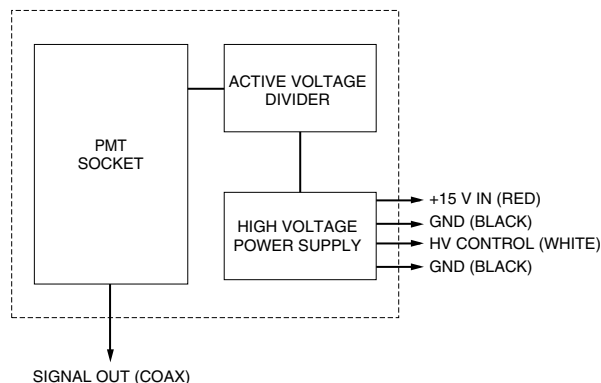
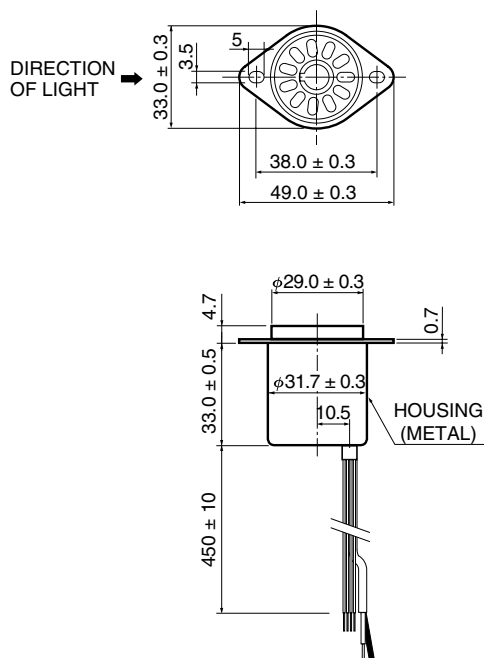


Figure 5: Dimensional Outline (Unit: mm)

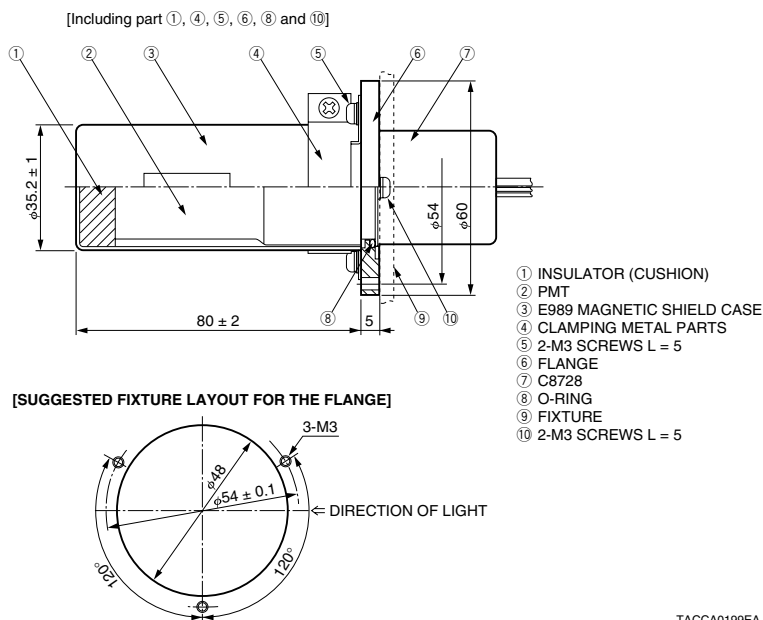


SIGNAL OUTPUT	COAX RG-174/U
+15 V INPUT	AWG24, RED
HV CONTROL INPUT	AWG24, WHITE
GND	AWG24, BLACK
GND	AWG24, BLACK

TACCA0250EA

OPTION (Sold separately)

FLANGE A7709



TACCA0199EA

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