

The E13643 is a D-type socket assembly designed for TO-8 metal package photomultiplier tubes. It uses transistor circuit for the voltage divider circuit, making it ideal for use in high output applications.



FEATURES

- Active voltage divider circuit
- Low power consumption, Low heat generation
Without incident light, power consumption is 1/5 of resistive divider type.
- Excellent output linearity
- High output current even at low supply voltage

SPECIFICATIONS

Parameter	Description / Value	Unit
Max. insulation voltage between case and pins	1100	V
Max. supply voltage between GND and HV cable	1100	V
Voltage divider current (at Max. supply voltage)	at output signal current of 100 μ A	163 μ A
	when no incident light	63 μ A
Insulation resistance between case and pins	Min. 1×10^{11}	Ω
Leakage current in signal (at -1000 V)	Max. 1×10^{-10}	A
Linear output in DC mode (at -1000 V) [Ⓐ]	Min. 100	μ A
Signal output [Ⓑ]	DC / Pulse	—
Operating ambient temperature [Ⓒ]	0 to +50	$^{\circ}$ C
Storage temperature [Ⓒ]	-15 to +60	$^{\circ}$ C
Weight	20	g

NOTE: Ⓐ The current at which output of photomultiplier tube deviates by $\pm 2\%$ from the linear (Refer to Figure 1)

Ⓑ This divider circuit supports a higher current than previous models, but do not exceed the maximum current specified for an individual PMT.

Ⓒ No condensation

Figure 1: DC linearity

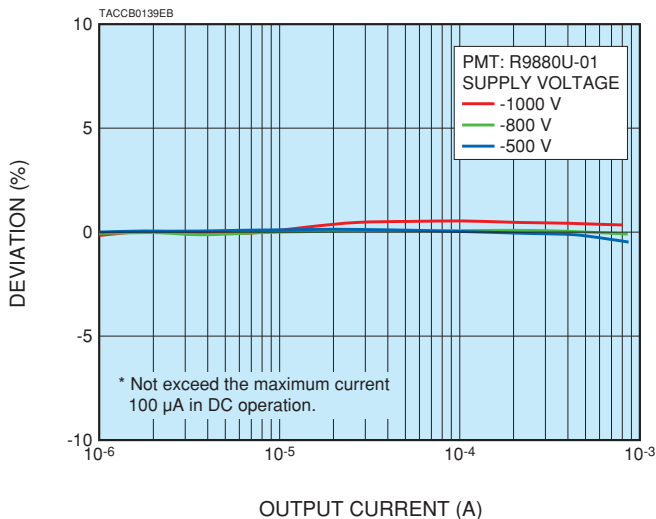
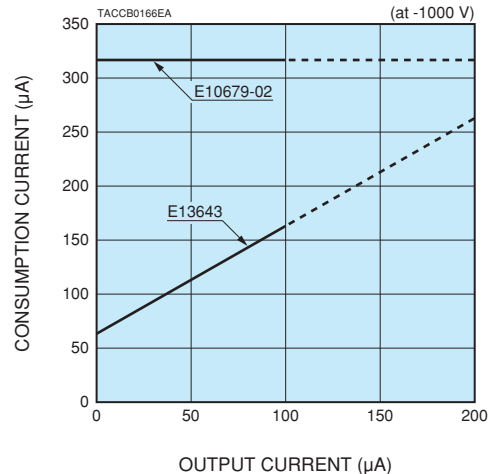
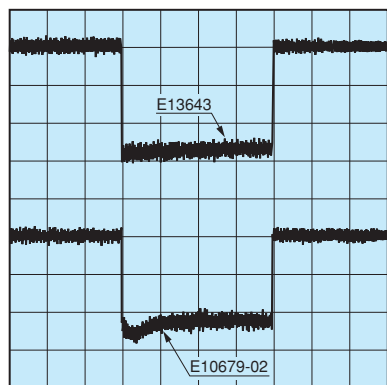


Figure 2: Output current vs. consumption current



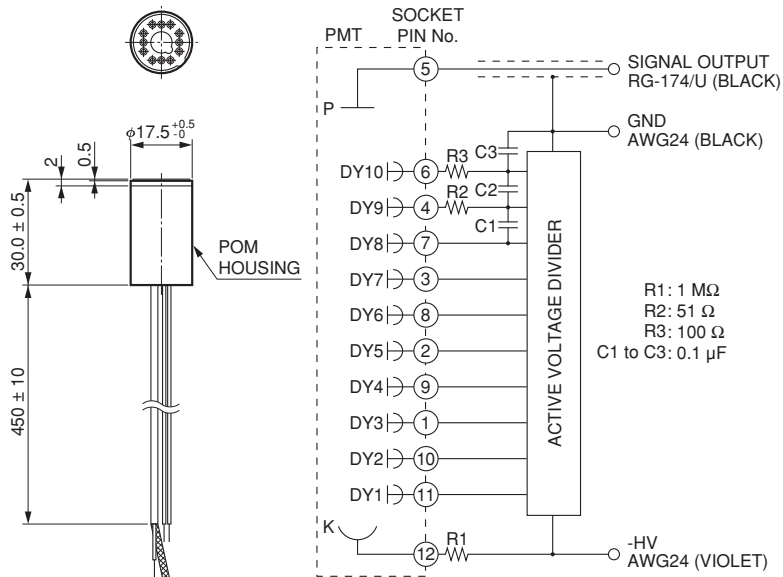
HIGH LINEARITY ACTIVE D TYPE SOCKET ASSEMBLY E13643

Figure 3: Output pulse waveform



SUPPLY VOLTAGE: -300 V
OUTPUT: 5 mVp-p (100 μ A)
PULSE WIDTH: 20 ms

Figure 4: Dimensional outline and circuit diagram (Unit: mm)



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TACC1075E02
MAR. 2024 IP