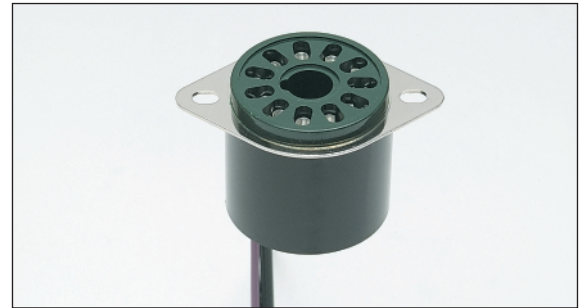


The E5815-01 consists of a socket and voltage divider circuit to operate a 28 mm (1-1/8") side-on photomultiplier. Its circuit utilizes transistor devices in the three final stages. The E5815-01 can give superior DC linearity characteristics. Additionally, the overall length is less than 30 mm. The performance is convenient especially for color scanner application, etc.



SPECIFICATIONS

MAXIMUM RATINGS

Parameter	Value	Unit
Max. Supply Voltage between Case and Terminals	1500	V
Max. Supply Voltage between GND and HV cable	-1500	V
Max. Voltage Divider Current (at Max. Supply Voltage)	0.46	mA
Power Consumption (at Max. Supply Voltage)	682	mW

CHARACTERISTICS (at 25 °C)

Parameter	Value	Unit
Insulation Resistance between Case and Terminals	Min. 1×10^{11}	Ω
Leakage Current in Signal [Ⓐ]	Max. 1×10^{-10}	A
Total Voltage Divider Resistance in Operation	3.3	M Ω
Max. Linear Output in DC Mode (at Max. Supply Voltage) [Ⓑ]	100	μ A
Signal Output	DC / Pulse	—
Operating Ambient Temperature [Ⓒ]	0 to +50	°C
Storage Temperature [Ⓒ]	-15 to +60	°C
Weight	44	g

NOTE: [Ⓐ]At -1000 V supply voltage between GND and HV cable.

[Ⓑ]The current at which output of photomultiplier tube deviates by ± 1 % from the linear (Reference to Figure 2) [Ⓒ]No condensation

Figure 1: DC Linearity

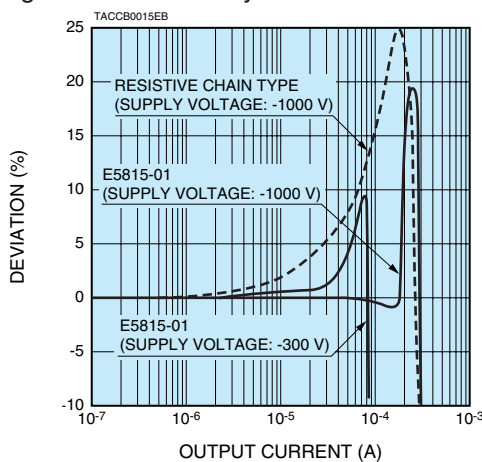
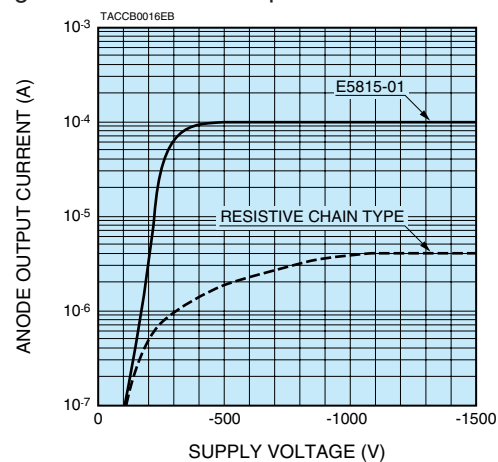


Figure 2: Maximum Output Under ± 1 % DC Linearity

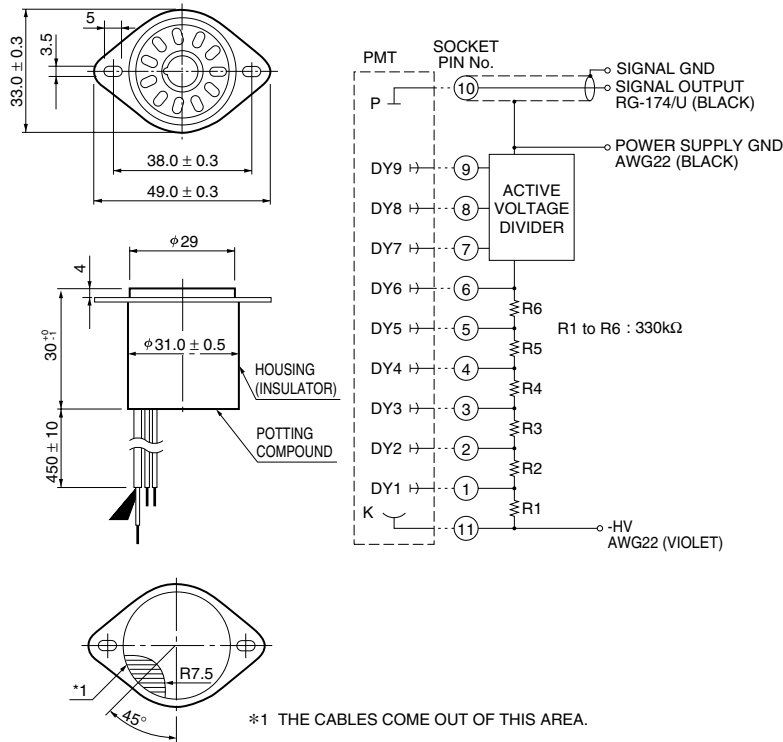


CAUTION

- When getting output anode current over operating area shown at Figure 2, there may be a sudden change in output. It would be caused by divider current but not lead E5815-01 to break down.
- When supplying high voltage with opposite polarity (+) by mis-handling, it lead an internal damage in E5815-01. Therefore, please take care to see the polarity of high voltage before operation.

ACTIVE D TYPE SOCKET ASSEMBLY E5815-01

Figure 3: Dimensional Outline and Circuit Diagram (Unit: mm)



RELATED PRODUCTS (High voltage power supplies)

Type	Type No.	Max. Output Voltage (V)	Output Current (mA)	Input Voltage	Dimensions * (W × H × D) (mm)	Weight	
Module Type	C4900	—	0.6	+15 V	46 × 24 × 12	31 g	
		-01	-1250	0.5			+12 V
		-50	+1250	0.6			+15 V
		-51		0.5			+12 V
	C11152	—	-1500	1	+15 V	41 × 10 × 41	38 g
		-01			+12 V		
		-50	+1500		+15 V		
		-51			+12 V		
Bench-top Type	C9525	—	2	AC 100 V/120 V	246 × 85 × 312	3.0 kg	
		-01		-2000			AC 230 V
		-50		+2000			AC 100 V/120 V
		-51					AC 230 V

* Excluding projecting parts.

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