

The C9619 series are compact PC-board mountable high voltage power supplies, especially designed for photomultiplier tubes. The design offers better performance and completed fail-safe protection.

The C9619 and -01 output negative polarity and the C9619-50 and -51 output positive polarity high voltages.

FEATURES

- Compact and Lightweight
- High Stability
- High Output Power (2 kV / 2 mA)
- Completed Fail-safe Functions
- Six-plane Metal Shielded

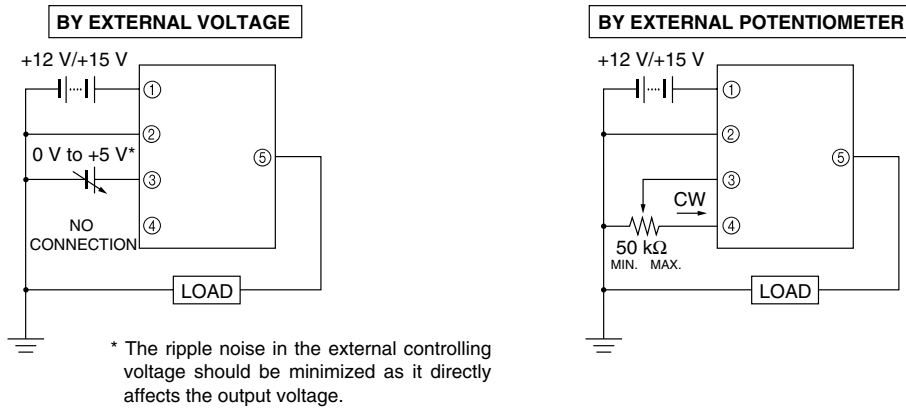


SPECIFICATIONS

Parameter			C9619	C9619-01	C9619-50	C9619-51	Unit
Input Voltage			+14 to +16	+11 to +13	+14 to +16	+11 to +13	V
Input Current at Maximum	with no load	Typ.	120	100	120	100	mA
	with full load	Typ.	380	460	380	460	
Output Voltage							
Variable Output Voltage Range			0 to -2000		0 to +2000		V
Specification Guaranteed Output Voltage Range			-320 to -2000		+320 to +2000		V
Output Current		Max.	2				mA
Input Regulation against ± 1 V Input Change		Typ.	±0.01	±0.03	±0.01	±0.03	%
Load Regulation against 0 % to 100 % Load Change		Typ.	±0.03				%
Ripple Noise (p-p)		Typ.	0.003				%
Output Voltage Controlling Modes			By external controlling voltage (0 V to +5 V) or external potentiometer (50 kΩ)				—
Controlling Voltage Input Impedance		Typ.	110		97		kΩ
Output Voltage Setting			(Controlling voltage × (-400)) ± 1 %		(Controlling voltage × (+400)) ± 1 %		V
Output Voltage Rise Time (0 % → 99 %)		Typ.	150				ms
Temperature Coefficient		Typ.	±0.01				%/°C
Operating Ambient Temperature / Humidity			0 to +40 / 85				°C / %
Storage Temperature / Humidity			-20 to +60 / 90				°C / %
Weight			100				g
Protective Functions			Units protected against reversed power input, reversed / excessive controlling voltage input, continuous overloading / short circuit in output				—

HIGH VOLTAGE POWER SUPPLY UNIT C9619 SERIES

Figure 1: Output Voltage Controlling



TACCC0139EA

Figure 2: Output Voltage Controlling Characteristics

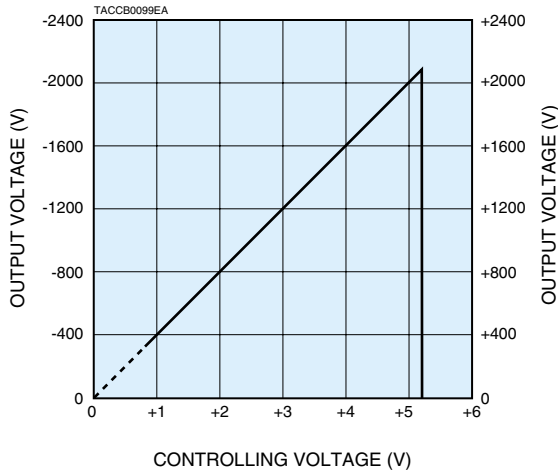
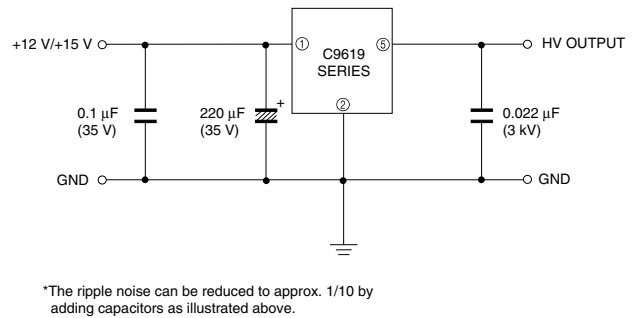
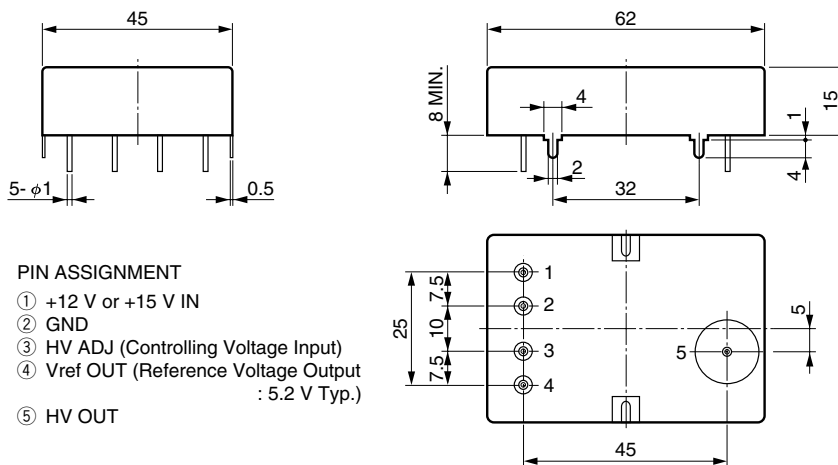


Figure 3: Example of Ripple Noise Reduction Circuit



TACCC0140EA

Figure 4: Dimensional Outline (Unit: mm)



TACCA0291EA

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