

High Voltage Power Supplies

TP Series for APD 50V to 300V

1035-03P



FEATURES

- Compact size, PCB mountable
- Low ripple, < 10mVp-p
- Output voltage controlled by remote control voltage
- Output short circuit protected
- Low cost

SUMMARY

TP Series are high voltage DC-DC converters ideally suited for biasing Avalanche Photodiodes(APDs) and Photodetectors.

They feature exceptionally low ripple and noise, remote voltage control and continuous output short circuit protection.

LINEUP

Output voltage	MODEL		Rated load	Ripple	Input current
	Positive	Negative			
0 to 50Vdc	TP-0.05P	TP-0.05N	50kΩ	Less than 10mVp-p	50mA
0 to 150Vdc	TP-0.15P	TP-0.15N	150kΩ		80mA
0 to 200Vdc	TP-0.2P	TP-0.2N	200kΩ		100mA
0 to 300Vdc	TP-0.3P	TP-0.3N	300kΩ		120mA

SPECIFICATIONS

Input Voltage(Vcc) +5Vdc \pm 5%

Output Control Remote control voltage(Vcon-in)
0 to 3Vdc(Input impedance : 10kΩ)

Regulation Line : 0.3% of max voltage for Vcc \pm 5%
Load : 2% typ of max voltage for load change of 10%

Temp. Coef. 0.08%/°C typ(-10°C to 50°C)

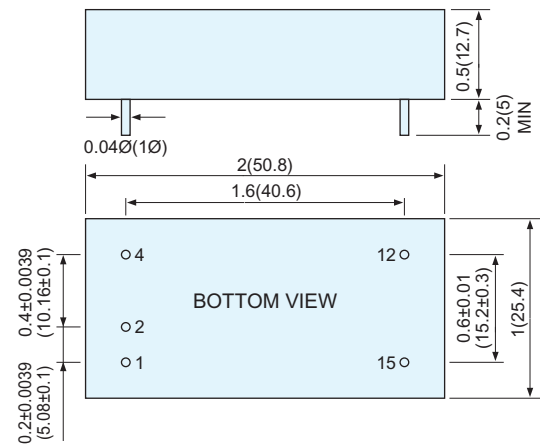
Protection output short circuit

Temp. Range Operating : -10 to 50°C
Storage : -20 to 60°C

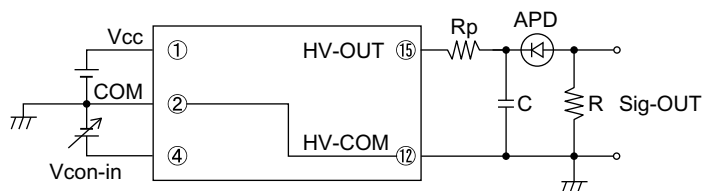
Humidity 20 to 80%RH(no condensation)

Weight 30g Approx

DIMENSIONS inch(mm)



CONNECTION DIAGRAM



*PIN ② and ⑫ are internally connected.

*Recommend to use Rp for protection, and C for high speed application.

Rp = 100kΩ, C = 1nF is typical

