

Miniature Size PCB Mountable

High Voltage Power Supplies

TS Series for APD 50V to 300V

Matsusada Precision Inc.

CA Office : 2570 N. First St., Suite 222 San Jose CA 95131

Tel : +1-408-273-4573 Fax : +1-408-273-4673

NY Office : 80 Orville Drive Suite 100 Bohemia NY 11716

Tel : +1-631-244-1407 Fax : +1-631-244-1496

Headquarters : 745 Aoji-cho Kusatsu Shiga 525-0041 Japan

Tel : +81-77-561-2111 Fax : +81-77-561-2112

www.matsusada.com/contact

1037-02P



FEATURES

- Miniature size, PCB mountable
- Low ripple, < 10mVp-p
- Output voltage controlled by remote control voltage
- EMI/RFI shielded
- Continuous output short circuit protected
- UL60950 CSA60950(C-UL), CE certified

SUMMARY

TS Series is a high voltage DC-DC converter ideally suited for biasing Avalanche Photodiodes(APDs) and Photodetectors.

This series features exceptionally low ripple and noise, remote voltage control and continuous output short circuit protection.

Output voltage	Model		Rated load	Ripple	Input current
	Positive pola	Negative pola			
0 to 50Vdc	TS-0.05P	TS-0.05N	50kΩ	Less than 10mVp-p	40mA
0 to 100Vdc	TS-0.1P	TS-0.1N	100kΩ		50mA
0 to 200Vdc	TS-0.2P	TS-0.2N	400kΩ		50mA
0 to 250Vdc	TS-0.25P	TS-0.25N	500kΩ		70mA
0 to 300Vdc	TS-0.3P	TS-0.3N	600kΩ		70mA

SPECIFICATIONS

Input Voltage 12V ± 1Vdc

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

Regulation Line : 0.3% of max voltage for Vcc ± 1V
Load : 2% TYP of max voltage for load change of 10%

Temp Coef 0.05%/°C TYP(0°C to 50°C)

Protection Continuous output short circuit

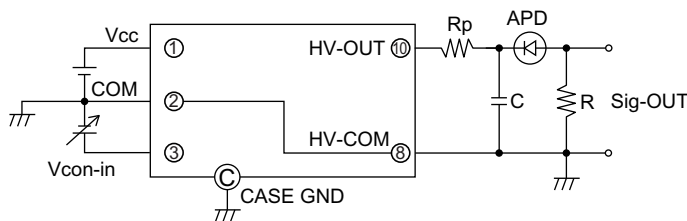
Temp Range Operating : -10 to 60°C
Storage : -20 to 70°C

Weight 20g Approx

DIMENSIONS (mm)

15.2W × 30.2L × 8.5H

CONNECTION DIAGRAM



*PIN② and ③ are internally connected, while isolated from case GND.

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

Rp = 100kΩ, C = 1nF is typical