

brandenburg 566 series

PC Mounting Converter Modules
Output Voltages 250V to 2.4kV
100mW Power Rating



Features

- Unregulated converter – output voltage tracks input over 2V to 10V input range
- Miniature size for printed circuit mounting
- Low cost with high performance
- Low output ripple and noise
- 3000V isolation primary to secondary
- Either terminal of output may be grounded
- Industry standard pin layout
- Full encapsulation for environmental protection

Description

The Brandenburg series 566 is a range of miniature power supply modules, designed to operate from a 10V dc supply. Their low power and low ripple characteristics make them suitable for photo-detector biasing and similar applications. Further reduction in ripple may be achieved by adding an external filter capacitor. An input filter circuit guards against feedback of ripple into the supply. High efficiency, high frequency power conversion is used, the high voltage transformer being wound on a ferrite pot core. This minimises external magnetic fields and makes the modules suitable for incorporating into densely packed electronic assemblies. The output voltage varies in proportion to the input voltage over the input range of 2 to 10Volts. The power rating of the modules is approximately 100mW (see table).

Full encapsulation is used to give complete protection against humidity and a wide operating temperature range. The modules are designed for printed circuit mounting by means of the connection pins.

Ordering Information

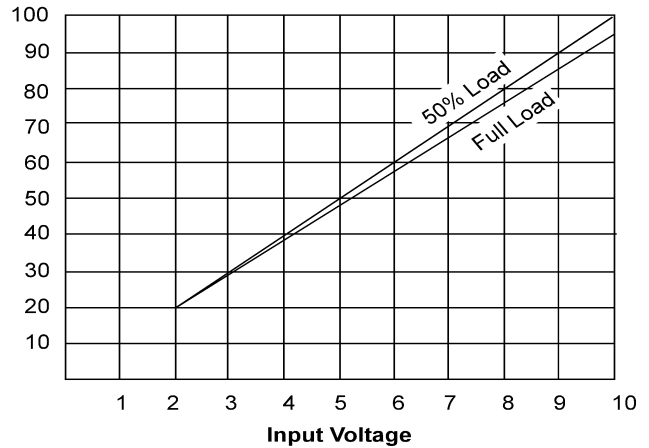
Input Voltage Range	Output Voltage Range	Output Current (at max. voltage)	Ordering code
2 – 10V dc (all models)	42 – 250V	250µA	566-401
	83 – 500V	200µA	566-402
	167 – 1000V	100µA	566-403
	200 – 1200V	100µA	566-404
	400 – 2400V	50µA	566-405



Electrical Specification

Input voltage range +2V to +10V dc
 Output voltage range Output tracks input – see graph and Ordering Information
 Output current see Ordering Information
 Output ripple 0.5% pk-pk.
 Load regulation 5% (half load to full load)
 Output grounding Floating output – either side may be grounded
 Input/output isolation 3000V
 Protection Proof against output short circuits

% of Max Output Voltage



Environmental Specification

Operating temperature range -10 to +60 deg.C.
 Storage temperature range -40 to +85 deg.C.
 Fully encapsulated for protection against humidity.

Mechanical Specification

Dimensions 38.1 x 38.1 x 16.0mm (plus 7.6mm for pins)
 (1.5" x 1.5" x 0.63" plus 0.3" for pins)
 Weight 43 g (1.5 oz) approx.
 Connections and mounting Four pins for connection and mounting

