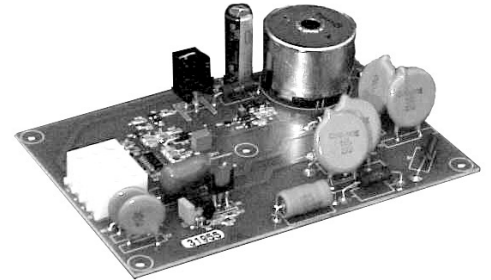




OEM FLASHLAMP SIMMER SUPPLY

- 120mA SIMMER CURRENT
- 1125V OPEN CIRCUIT VOLTAGE
- AUTOMATIC BOOST TO MAINTAIN ARC
- UP TO 28W OUTPUT
- SCR DRIVE FOR TRIGGER TRANSFORMER
- SIMMER SENSE INDICATOR
- LOW COST, OEM PACKAGE



DESCRIPTION:

The **Model 866** simmer supply is designed to strike and maintain a low-level current discharge in flashlamps. Initially, the simmer output open circuit voltage rises to a stabilized 1125V. The simmer trigger output provides an SCR discharge of 350V at 20mJ to drive a trigger transformer. When the lamp is struck, the trigger pulses are inhibited and the supply provides a constant current to the flashlamp. Immediately after PFN discharge, the current is boosted automatically to maintain the arc. An external ballast is not normally required.

SPECIFICATIONS:

Input		Efficiency	75% typical including internal ballast
Voltage	+24VDC to +30VDC at 1A typical	Simmer Trigger	
Simmer Output		Voltage	-350V at 20mJ
Voltage	Up to 250V (depending on flashlamp) Flashlamps should be processed for simmer operation.	Pulsewidth	≥1μs
Open Circuit	1125V, ±75V	Repetition Rate	Automatic restrike at ≈25Hz, if flashlamp is not lit.
Current	120mA	Temperature	0° to 70°C
Boost	Up to 400mA for 2mS.	Connections	
Current	For >30Hz laser PRF, boost must be disabled (Add -D to part number.)	Input/Output/ Power	Amp, 350764-4
Enable	+3.0 to +32V enables simmer, 18k impedance. May be tied to DC input power.	Mating	Amp, 1-480708-0
Simmer	Open collector opto-isolated output.	Size	6.0" x 4.0" x 1.7"
Sense	Transistor stage turns on when lamp is simmering. Requires external pull-up resistor.		

Specifications subject to change without notice.

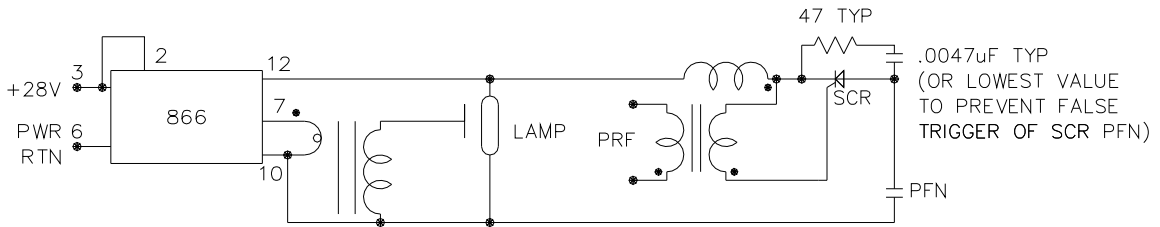
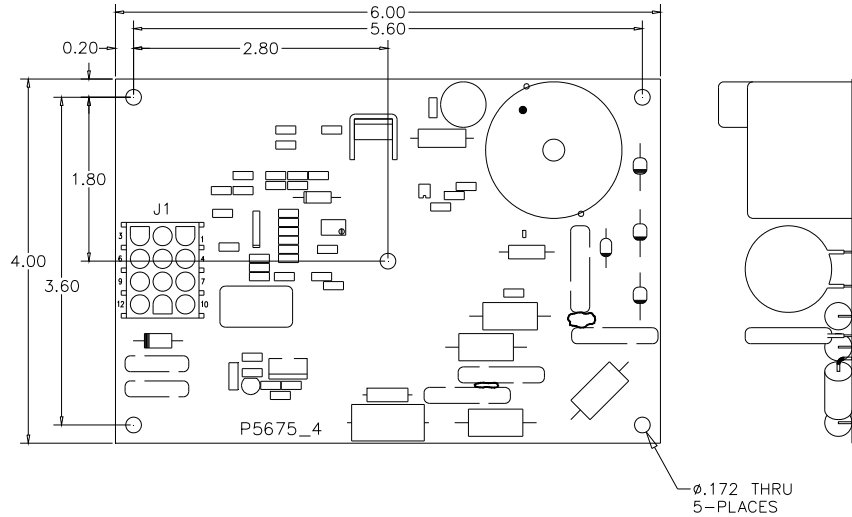


APPLICATIONS:

Full Simmer Supply with SCR Trigger Drive for Flashlamps

		MODEL NUMBER
		OUTPUT CURRENT
		120mA
INPUT VOLTAGE	+24VDC TO +30VDC	866

Typical Part Number: 866-D = Input Voltage: +24 to 30VDC
 Output Current: 120mA
 Automatic Boost: Disabled for >30Hz laser PRF applications



TYPICAL EXTERNAL TRIGGER CIRCUIT

NOTE: BECAUSE OF THE WIDE VARIATIONS IN FLASHLAMPS, ANALOG MODULES, INC. CANNOT GUARANTEE SIMMER OPERATIONS WITH ALL LAMPS.

PIN #	SIGNAL NAME	BOARD CONN	MATING CONN	MATE CONTACT
J1-1	C.S. COLLECTOR	AMP 350764-4	AMP 1-480708-0	AMP 350706-1
J1-2	ENABLE			
J1-3	POWER IN			
J1-4	C.S. EMITTER			
J1-5	N/C			
J1-6	POWER RTN			
J1-7	HV TRIGGER			
J1-8	N/C			
J1-9	N/C			
J1-10	HV RTN			
J1-11	N/C			
J1-12	HV OUT			