Surrey Electronics

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Our home 1973-2002 - the flood prone Forge

PPM5 APPLICATIONS NOTE

www.surreyelectronics.com

20 pin dual in line, pitch 1 inch, 25.5mm PPM5 cennections.

47 Rectifier output

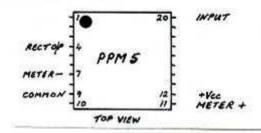
Meter -

Common

11 Meter +

+Vcc, 8.5-35V 12

20 Input



The time constant resistors are fitted to the package externally to allow alteration for special applications.

> nominally permissible values

Attack resistor is fitted between pin 3 and pin 18

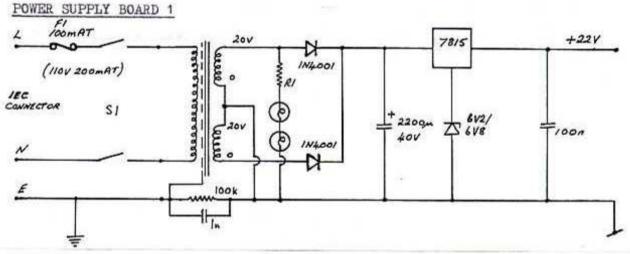
68-91n

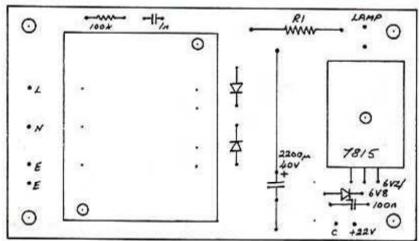
 $47\Omega - 1 k\Omega$

Decay resistor is fitted between pin 6 and pin 15

68-150kΩ

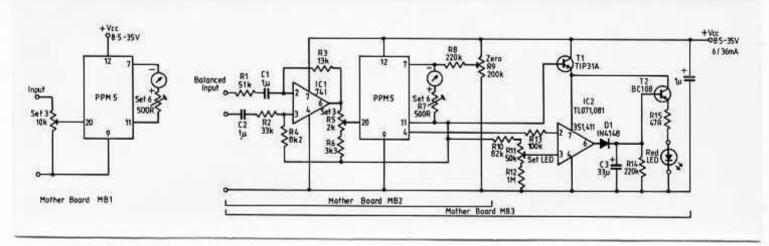
3k3Ω-1MΩ



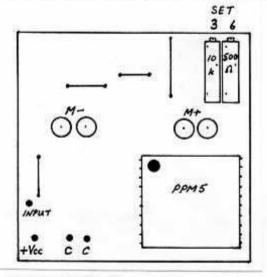


- 1 LAMP R1 = 47R 4W2 LAMPS R1 = 8R2 2W5 If the dc output is only supplying the light load of PFM5s (up to 100mA) then four lamps may be run
- 4 LAMPS R1 = s/c link

WARNING: THIS APPARATUS MUST BE EARTHED AND SUFPLIED FROM THE MAINS VIA A 100mAT FUSE.



MOTHER BOARD 1



Unbalanced

Input impedance 8kn Sensitivity for PPM4: -13dBV.7, 180mV

Alignment

PPM Mark 6 is to be maximum level

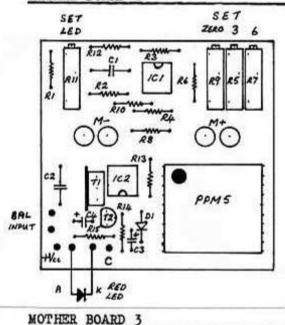
After the supply has been on for two minutes adjust the meter mechanical zero.

Apply a 1kHz sine wave at 12dB below maximum and adjust SET 3 for a reading of Mark 3.

Apply maximum level and adjust SET 6 for a reading of Mark 6.

Repeat and then check that all divisions 1 to 7 are 4dB.

MOTHER BOARD 2



Balanced. The input circuit is arranged to provide equal loading to both legs of the line for differential mode signals Input impedance, balanced 80kn; unbalanced 40kΩ Sensitivity for PPM4: OdBV.7 -1 dB

Alignment

Where the meter has an accessible zero adjustment set this before connecting the supply.

After the supply has been on for two minutes adjust the SET ZERO preset. Apply 1kHz sine wave at -4dBV.7 and adjust SET 3 for a reading of Mark 3. Apply +8dBV.7 and adjust SET 6 for a reading of Mark 6. Repeat and check that all divisions

1 to 7 are 4dB.

Balanced, as Mother Board 2 Overload +9dB LED flasher LED current 30mA, constant for all supply voltages

Alignment

As Mother Board 2 but additionally: Apply +9dBV.7 and adjust SET LED preset so the LED is just turned on.