

BOM VU BUFFER + LED OVERLOAD

Q.ty	Resistors:	N° on PCB
1	1M 1% 1/4W	R9
1	100R 1% 1/4W	R7
6	3.3K 1% 1/4W	R3, R4, R5, R6, R11, R12
6	47K 1% 1/4W	R1, R2, R8, R10, R13, R14
Q.ty	Trim pot:	N° on PCB
2	5K vertical	RV1, RV2
Q.ty	Diodes:	N° on PCB
4	BAT85	Z1, D2, D3, D4
Q.ty	ICs:	N° on PCB
1	TL072	U1
Q.ty	Film Capacitors:	N° on PCB
4	1uF p=5mm	C1, C2, C3, C4
Q.ty	Electrolytic Capacitors:	N° on PCB
3	10uF / 63V p=2.54mm	C5, C6, C7
Q.ty	Various:	N° on PCB
1	3mm RED LED HIGH BRIGHT TYPE	LED
1	Connectors 22272021 Molex 1x2P p=2;54mm	PWR
1	Connectors 22272031 Molex 1x3P p=2;54mm	INPUT
1	DIP8 IC Socket	

Setup VU Buffer and Peak LED

1. Connect dc power you are using. VU buffer and peak led can run on +12 to +36vdc @ 30mA so main current draw will usually be the VU meter light.
2. Send 1kHz tone in at the reference level you want for the VU meter like +4dBm for example.
3. Adjust Trimpot marked VU for correct 0VU level for your system.
4. Send 1kHz tone in at the reference level you want for the Peak LED meter like +18dBm for example.
5. Then adjust trimpot marked LED until the LED just lights.

Note to set high peak levels than +18dBm or +18dBu a power rail of more than +12vdc will be needed.

In case of VU meter with internal rectifier

1. Do not fit R11, D2, D3
2. Put a link in place of D2.

