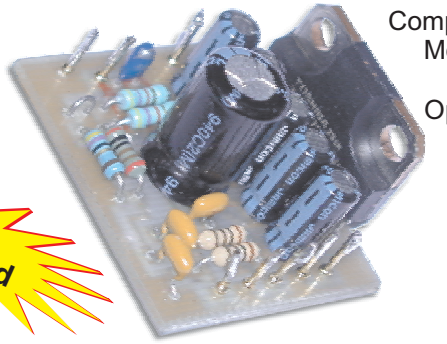
WES COMPONENTS Aust. Asia
Phone (02)9797-9866
Fax1 (02)9716-6015
Fax2 (02)9799-7051

EP22

Suit 4 to 8ohm Speakers



New Improved

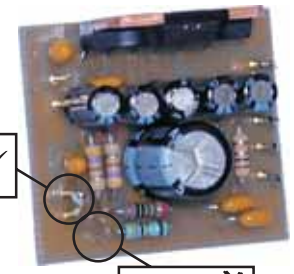
EP22 is a pre-built dual audio power amplifier module. It is designed for high power, low distortion and low noise. This module can operate from 9v to 18v making the EP22 suitable for use in many replacement or project applications. Compact in size. Only 32 x 36 x 20mm plus heat sink (Not Supplied). Mounts onto a heat sink or the chassis. Should be floated by mica heat transfer / electronic isolators (heatsink is NOT earthed). Operates in BTL high power mode (as supplied) at 22W or can be quickly changed into a stereo module by changing two links and the addition of two coupling capacitors (not included) for 5.8W x2 output. Uses an original Toshiba bipolar linear IC. This IC has impressive performance and phenomenal device protection for thermal, over voltage and short circuit. You will find the EP22 easy to set up, efficient and stable.

Supplied pre-wired as a bridged mono BTL

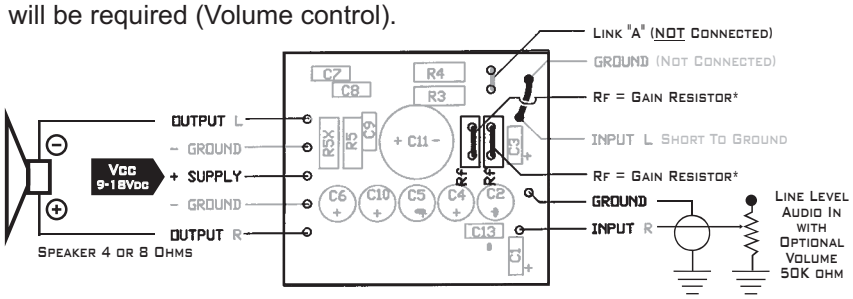
HIGH POWER BTL 22W *(4ohm)*
MONO OPERATION
*Supplied wired this way:

Mounts Direct To Chassis!

HEATSINK REQUIRED! About 5°c/w or 25cm² Surface area



1/*Short the "Left" input to ground (Not used).
2/*Check that "Link A" is Not Connected.
3/ Connect "Right" input to signal (Shielded cable).
4/ Modify preset-gain by changing ***BOTH*** R_F1 & R_F2 if required*.
0 ohm = Maximum Gain (+56dB) **Supplied with 470 ohm for 46dB gain.*
For line level input (2Vpp), Input attenuation will be required (Volume control).
5/ Connect the Speaker ⊕ to "Output R"
Connect the Speaker ⊖ to "Output L"
Ignore the "⊖Ground" for the L & R Out.
Note: Both Outputs L & R are at ½Vcc !
Do Not Short To Ground!
6/ Attach voltage rails (9 to 18 Vdc Positive)
Heat sink tab is at ground (Negative earth)
7/ Bolt to a suitable chassis or heatsink.
8/ The EP22 should now be operational !



STEREO MODE
5.8W X2 INTO 4 ohm
For this mode you have to make some modifications:

1/ Connect "Link A" (Shorts R4 & R5 to ground).
2/ Connect source to "L & R" inputs (Shielded).
3/ Gain Resistors: 0 ohm = Maximum Gain (+56dB)
**Supplied with 470 ohm for 46dB gain.*
For line level input (2Vpp), Input attenuation will be required (Volume control).
4/ Note: ⊕ Outputs L & R are at ½Vcc. (ie. 6V)
Coupling Capacitors are therefore required.
Solder a 1000uF Inline to both the L & R Outputs.
5/ Connect External Speaker ⊕ to coupling cap's ⊖
Connect coupling cap's ⊕ to "Output L" (*same for R*)
Connect Speaker ⊖ to "⊖Ground" (or Common).
6/ Attach voltage rails (9 to 18 Vdc Positive)
Note: Heat sink tab is at ground (or common)
7/ Bolt to a suitable heat sink or chassis.
8/ The EP22 should now be operational in stereo!

Break X

Link✓

HEATSINK REQUIRED! About 5°c/w or 25cm² Surface area