

APPLICATION NOTE PA240

EVALUATION KIT

EK34 is an easy to use engineering platform for prototype evaluation of the PA240CX. The PC board is also a good starting point for an application specific layout. Provided items include: PC board, heatsink rated at 2.7°C/W with clamp, socket, and thermal washers. The amplifier is sold separately. Common hardware such as screws, nuts and user's preference for I/O connectors are not provided.

HEATSINKS

The following heatsinks are mechanically compatible with the CX, staggered pin TO-220 package. Thermal ratings are for optimum mounting in free air.



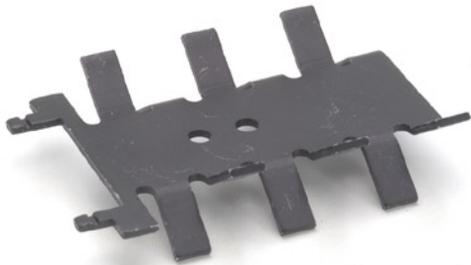
HS27 5.3°C/W

The HS27 is designed to be fastened vertically to a PC board by soldering.



HS22 20°C/W

The HS22 is designed to be fastened vertically to a PC board by soldering.



HS28

The HS28 is designed to be fastened vertically to a PC board by soldering.

Many other heatsinks can be used with this amplifier if a hole is drilled and deburred. Requirements for the potential heatsink or chassis member are flatness of 2 mils per inch in an area large enough to fit the package.

HS23 10°C/W

The HS23 is designed to be fastened vertically to a PC board by soldering.

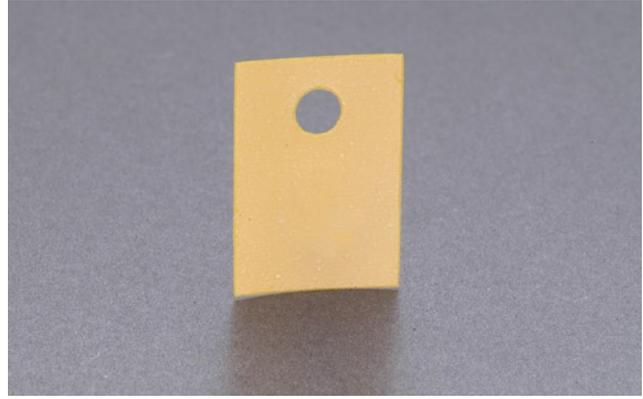
CAGE JACKS

MS11



Part number MS11 consists of a carrier strip of 30 cage jacks. The strip can easily be cut to any desired number of cage jacks. These are mounted directly in a print circuit board. After soldering, the carrier is pulled off the cage jacks. Use a spacer between the PCB and the heatsink to avoid short circuits.

THERMAL WASHER



TW14

NOTES:

1. Base material is Kapton MT, 0.002" thick.
2. For optimum thermal transfer, avoid abrasive handling of washers which can damage their 0.5mil thick layer of thermal compound with which each side is coated.
3. The dry thermal compound will flow filling header to heatsink voids as soon as the material reached 60°C.
4. Do not store unused thermal washers above 40°C.
5. A new washer must be used for each mounting.
6. Part number TW14 consists of a package of 10 washers.
7. Thermal resistance is 0.17°C/W.