APPLICATION NOTE PA74

EVALUATION KIT

EK21 is an easy-to-use kit providing a platform for the evaluation of power op amps that use the PA74 pin-out configuration. It can be used to analyze a multitude of standard or proprietary circuit configurations. In addition, it is flexible enough to do most standard amplifier test configurations.

PARTS LIST

Part #	Description	Quantity
HS11	Heatsink	1
EVAL02	PC Board	1
MS03	Mating Socket	2
HWRE01	Hardware Kit	1
TW03	Thermal Washer	1 Box/10

HWRE01 contains the following:

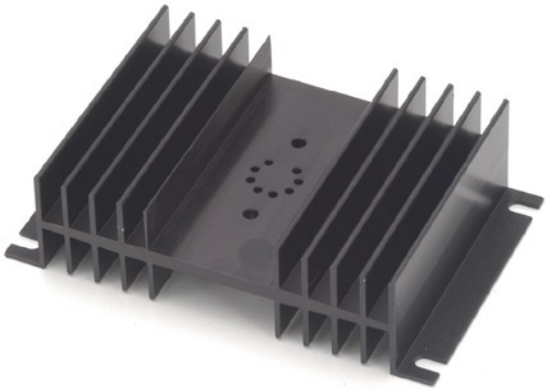
4 #8 Panhead Screw	4 #6 x1.25" Panhead Screw
4 #8 .375" Hex Spacer	4 #6 x 5/16" Hex Nut
4 #8 1.00" Hex Standoff	2 #6 x1/4" Hex Nut

HEATSINKS

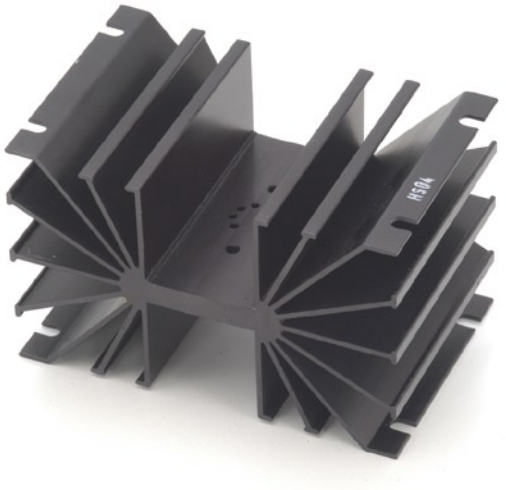
The following heatsinks are mechanically compatible with this amplifier. Thermal ratings are for optimum mounting in free air.

HS01 11.6°C/W

HS02 4.5°C/W

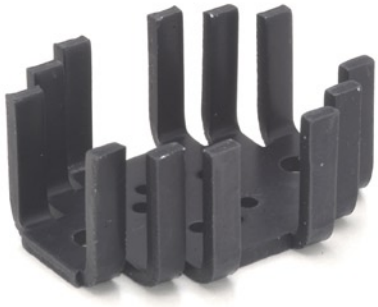


HS03 1.7°C/W



HS04 0.95°C/W

HS05 0.85°C/W



HS09 11.7°C/W

HS11 0.68°C/W

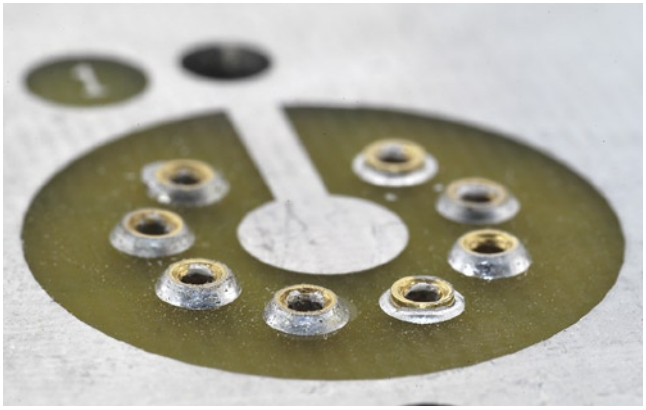
With liquid cooling the HS11 thermal rating can be reduced to .1°C/W.

HS13 1.48°C/W

HS14 2°C/W

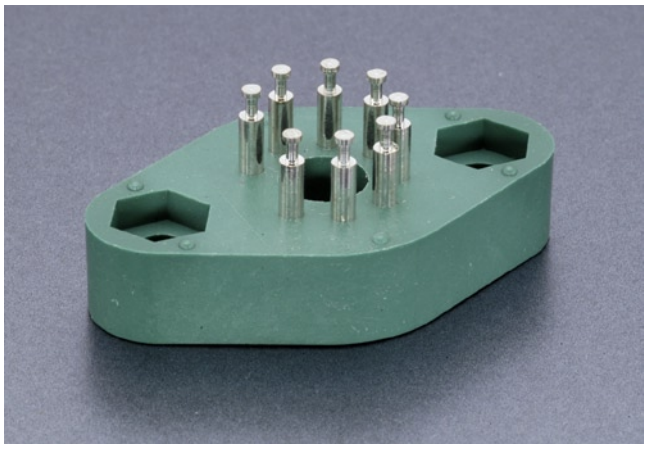
CAGE JACKS

MS02



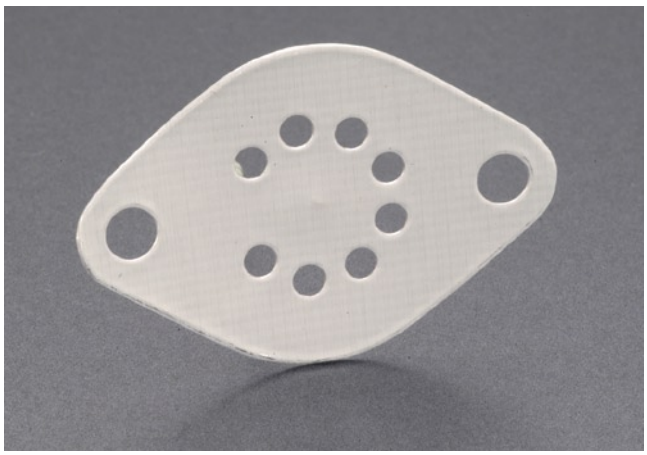
Part number MS02 consists of a package of 8 cage jacks. These are mounted directly in a print circuit board. Use a spacer between the PCB and the heatsink to avoid short circuits.

SOCKET



MS03

THERMAL WASHER



TW03

NOTES:

1. Base material is aluminum, 0.002” thick. Do not allow the washer to touch pins of the amplifier.
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 TW03 consists of a package of 10 washers.
7. Thermal resistance is 0.1°C/W.

