[0053] At **720** a thermally conductive material is inserted into an aperture of the housing. If the housing is a two part housing as outlined above then the aperture may be in a lid or upper portion of the housing. In an alternative example the thermally conductive material may comprise a flexible film or a flexible film may be attached to the thermally conductive material and used to pull the thermally conductive material into the housing via the aperture. The flexible film may be attached to a single surface of the thermally conductive material or bent so that it is attached to an upper and lower surface of the thermally conductive material. The flexible film would also be inserted through a second aperture in order to pull the thermally conductive material into the housing.

[0054] At **730** the thermally conductive material is placed so as to enhance thermal energy transfer from the component into the thermally conductive material. Thermal energy transfer may be enhanced by compression of a gasket that is part of the thermally conductive material as it is inserted into the housing.

[0055] At **740** the thermally conductive material which extends away from the housing may be coupled to a surface external to the housing; for example another housing, display shield or a battery. This will allow thermal energy stored in the thermally conductive material to transfer thermal energy or heat from an area where the temperature is higher to one which is lower.

[0056] At **750** where a flexible film has been used to assist the insertion of the thermally conductive material, a portion of the flexible film that extends away from the housing is cut. This portion can be cut by using a serrated edge on the housing or by perforations in the flexible film.

[0057] In the description, the wording 'connect' and 'couple' and their derivatives mean operationally connected or coupled. It should be appreciated that any number or combination of intervening components can exist (including no intervening components). Additionally, it should be appreciated that the connection or coupling may be a physical galvanic connection.

[0058] The blocks illustrated in FIG. **7** may represent steps in a method. The illustration of a particular order to the blocks does not necessarily imply that there is a required or preferred order for the blocks and the order and arrangement of the blocks may be varied. Furthermore, it may be possible for some blocks to be omitted.

[0059] The term "comprise" is used in this document with an inclusive not an exclusive meaning. That is any reference to X comprising Y indicates that X may comprise only one Y or may comprise more than one Y. If it is intended to use "comprise" with an exclusive meaning then it will be made clear in the context by referring to "comprising only one . . . " or by using "consisting".

[0060] In this description, reference has been made to various examples. The description of features or functions in relation to an example indicates that those features or functions are present in that example. The use of the term "example" or "for example" or "may" in the text denotes, whether explicitly stated or not, that such features or functions are present in at least the described example, whether described as an example or not, and that they can be, but are not necessarily, present in some of or all other examples. Thus "example", "for example" or "may" refers to a particular instance in a class of examples. A property of the instance can be a property of only that instance or a property of the class or a property of a sub-class of the class that includes some but not all of the instances in the class.

[0061] Although embodiments of the present invention have been described in the preceding paragraphs with reference to various examples, it should be appreciated that modifications to the examples given can be made without departing from the scope of the invention as claimed.

[0062] Features described in the preceding description may be used in combinations other than the combinations explicitly described.

[0063] Although functions have been described with reference to certain features, those functions may be performable by other features whether described or not.

[0064] Although features have been described with reference to certain embodiments, those features may also be present in other embodiments whether described or not.

[0065] Whilst endeavouring in the foregoing specification to draw attention to those features of the invention believed to be of particular importance it should be understood that the Applicant claims protection in respect of any patentable feature or combination of features hereinbefore referred to and/or shown in the drawings whether or not particular emphasis has been placed thereon.

I/we claim:

1. An apparatus comprising:
a circuit board,
a housing connected to the circuit board,
at least one electronic component contained within said housing,
said housing comprising a aperture,
wherein said housing is configured to receive a thermally conductive material through the aperture and said thermally conductive material couples thermal energy from said at least one electronic component.

2. An apparatus according to claim **1** wherein the thermally conductive material couples thermal energy from said at least one electronic component to a surface of the housing.

3. An apparatus according to claim **1** wherein the thermally conductive material extends through the aperture and is configured to be adhered to a surface external to the housing.

4. An apparatus according to claim **3** wherein the surface is at least one of:
a shielding housing,
a battery,
a shield for a display.

5. An electronic device comprising the apparatus according to claim **4** wherein
the electronic component is at least one of:
a processor, a memory.

6. An apparatus according to claim **1** wherein the thermally conductive material comprises a gasket that is configured to be compressed in said housing.

7. An apparatus according to claim **1** wherein said thermally conductive material is fixed to a flexible film.

8. An apparatus according to claim **7** wherein said flexible film is fixed to a first and second surface of the thermally conductive material.

9. An apparatus according to claim **7** wherein said housing comprises a second aperture and the first and second aperture are configured to receive the flexible film.

10. An apparatus according to claim **9** wherein the flexible film is configured to pull the thermally conductive material into the housing upon insertion of the flexible film through the second aperture.