CLAIMS

1. A system comprising:

a circuit board comprising a first component having a first load requirement and a second component having a second load requirement;

a heat exchanger; and

a thermal interface material (TIM) sheet comprising:

a lower portion positioned between and in thermal contact with the first component and the heat exchanger, wherein the lower portion is not compressed;

a first upper portion positioned between and in thermal contact with the heat exchanger and the second component; and

a first side portion connecting the lower portion to the first upper portion.

2. The system of claim 1, further comprising a heat spreader plate positioned between and in thermal contact with the second component and the first upper portion, wherein the heat spreader plate comprises a cavity exposing the first component, and wherein the first side portion connects the lower portion to the first upper portion through the cavity in the heat spreader plate.

3. The system of claim 1, further comprising a gap filler pad between and in thermal contact with the first upper portion and the heat exchanger, and wherein the first upper portion is compressed.

4. The system of claim 1, wherein the TIM sheet further comprises:

a second upper portion positioned between and in thermal contact with the heat exchanger and the second component; and

a second side portion connecting the lower portion to the second upper portion, wherein the second side portion is positioned substantially perpendicular to the lower portion.

5. The system of claim 1, wherein the second load requirement is less than the first load requirement.

6. The system of claim 1, wherein the first upper portion comprises alternating folds creating adjacent layers of the TIM sheet.

7. The system of claim 1, wherein the first upper portion is coiled.

8. An apparatus comprising:

a first component, wherein the first component is a processing unit;

a second component;

a heat exchanger; and

a thermal interface material (TIM) sheet comprising:

a lower portion positioned between and in thermal contact with the first component and the heat exchanger, wherein the lower portion is not compressed;

a first upper portion positioned between and in thermal contact with the heat exchanger and the second component; and

a first side portion connecting the lower portion to the first upper portion.

9. The apparatus of claim 8, further comprising a heat spreader plate positioned between and in thermal contact with the second component and the first upper

portion, wherein the heat spreader plate comprises a cavity exposing the first component, and wherein the first side portion connects the lower portion to the first upper portion through the cavity in the heat spreader plate.

10. The apparatus of claim 8, further comprising a gap filler pad between and in thermal contact with the first upper portion and the heat exchanger.

11. The apparatus of claim 8, wherein the TIM sheet further comprises:

a second upper portion positioned between and in thermal contact with the heat exchanger and the second component; and

a second side portion connecting the lower portion to the second upper portion.

12. The apparatus of claim 8, wherein the first upper portion comprises alternating folds creating adjacent layers of the TIM sheet.

13. The apparatus of claim 8, wherein the first upper portion is coiled.

14. The system of claim 1, wherein the first side portion is positioned substantially perpendicular to the lower portion.

15. The apparatus of claim 8, wherein the first side portion is positioned substantially perpendicular to the lower portion.

16. The system of claim 14, further comprising a first fold between the lower portion and the first side portion positioning the first side portion substantially perpendicular to the lower portion.

17. The system of claim 16, further comprising a second fold between the first side portion and the first upper portion positioning the first upper portion substantially perpendicular to the first side portion and substantially parallel to the lower portion.