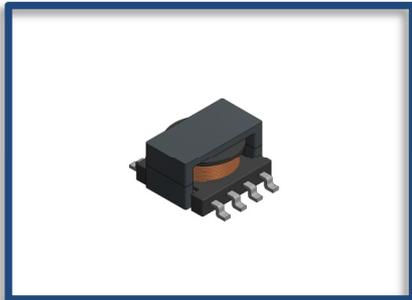
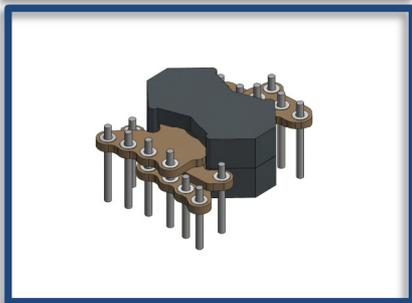
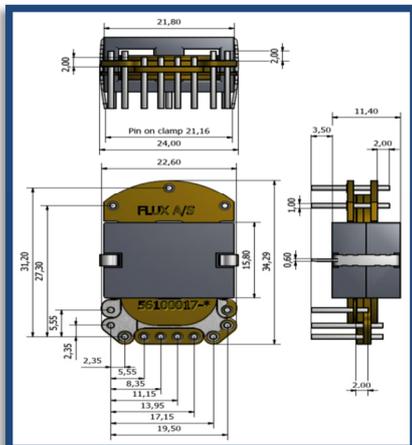


FLUX transformer technology

- bulletin 2013



ER9.5 Inductor, 10W
Wire wound construction, 4 windings
Gull Wing SMD platform



RM7LP Forward TRSF, 30W
Triple 8 layer PCB build-up
construction, THM mount

FLUX Planar Qualification:

In 2010 Flux concluded the ESA project of study, development and verification of Planar Transformer for Space Applications.

In 2011 a CCN for the qualification of Planar Transformers was accepted by ESA.

In 2013 Flux has concluded the design of 10 different Planar Transformers ranging from the very simple to the very complex.

Three designs were produced and subjected to successful pre-qualification under the surveillance of ESTEC.

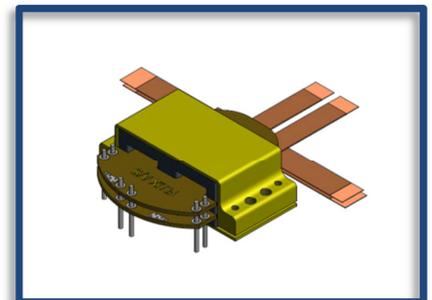
Four designs have been made for customer projects including flight units for ISS equipment – project ACES.

Five designs are manufactured and are presently undergoing qualification (see illustrations).

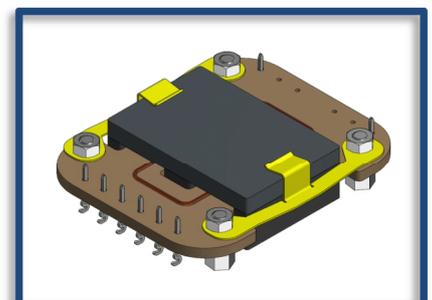
They are designed to represent an envelope of approved topologies, processes and materials to form the basis of future Flux Planar Transformer designs.

Planar advantages:

- ✓ Low profile construction
- ✓ Excellent repeatability
- ✓ Economical assembly
- ✓ Mechanical integrity
- ✓ High Temperature Resistant
- ✓ Superior thermal drain



EE32 Half Bridge TRSF, 100W
Double stacked 8 layer PCB and
three high current foil windings
Clamp with thermal drain material



EI38 Full-bridge TRSF, 200W
14 layer PCB between two flat wound
high power coils, SMT terminations
Mechanical structure mount



EI43 Integrated Magnetics, 400W
Transformer and output coils in one
7 windings in mirrored 14 layer PCB



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