

Power to the Board

DMTL has a long history of working in the power supply and control end of the business and now in partnership with Sinanics is able to provide a range of quality step down transformers for most applications. Built around an iron core (Silicon steel CRGO/CRNO or Permalloy for high frequency applications), these transformers are quite capable of working at line frequencies of 50 or 60 Hz, and at input voltages of between 110V and 240V. Power ratings of between 2.5VA and 20VA are common. Almost all types are split bobbin design giving a guaranteed isolation of up to 2.5kVac (special requirements can be taken care of).

Typical dimensions are in the range of 45mm x 40mm x 35mm (LxWxH); 41mm x 36mm x 28mm. There are multiple sizes and pin pitches possible but it is prudent for the developer to ask for the standard sizes and nearest equivalents to keep costs as low as possible. However, out-of-standard designs are also possible. All transformers are UL94-V0 rated and comply to Class F 155°C insulation system.

These highly efficient components are ideally suited to white goods applications such as washing machines, tumble dryers and air conditioning units, or industrial equipment such as heating systems, control systems and machine tools.

All components are designed to order and DMTL will work with customers to ensure they get the component and performance they need and will also hold buffer stocks of product when required. All parts provided by DMTL comply to RoHS guidelines.

To find out more about the Sinanics range from DMTL please go the DMTL website www.dmtl.co.uk/sinanics or call 01276 33391

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A stack of SMPS capacitors

With the requirement for switch mode power supplies to deliver more and more performance design engineers can be grateful that AVX is supporting this demand by the introduction of the Stacked MLCC (multilayer ceramic) range of capacitors specifically designed for this critical application.

Whether in an Input Filtering or Output Filtering application these devices are any match for the performance of the equipment they are designed into. On the input side they can be used to manage bursts of current to the supply switch circuits whilst suppressing potential noise generated within the circuitry and without generating additional noise of their own. On the output side they can be used to reduce the ripple effect that may be caused by AC interference being added to a DC output.

Applications for SMPS capacitors include high frequency DC-DC converters, typically within telecoms and instrumentation sectors where high volume and low cost are important. Available from 0.047µF to 22.0µF and 50V to 500V ratings this range of products would suit the most demanding application.

Available in J leaded terminations components can be supplied in bulk and tape & reel packaging by DMTL. DMTL is a major partner for AVX and can offer design in and technical support for engineers looking to develop high specification power circuits for every application. For further information on SMPS capacitors and other power products please visit www.dmtl.co.uk/avx



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