

DC/DC Converters for Defence & Avionics Applications: MTC Series
5 ~ 150 watts

The MTC SERIES is a range of Commercial-Off-The-Shelf (COTS) DC-DC converters developed specifically for the defence and avionics market. This product meets military specifications for EMC and input voltage transients whilst offering the short lead-times and cost benefits of a COTS component.

The MTC series uses a forward converter design switching at 450 kHz giving excellent size, efficiency and EMC performance. The input range is designed to provide short term operation from 10 – 50 VDC and filters are available to enable the converter to work at full power through the dips and surges, commonly seen in vehicle and aircraft applications.

A soft start circuit provides well-controlled outputs with no overshoot. Comprehensive control functions such as voltage trim, remote sense, inhibit and frequency synchronization to an external source, are standard features.

- COTS Component for Defence & Avionics Applications
- Environmental Performance to MIL-STD 810
- 10 to 50 VDC Transient Input Range
- 15 to 40 VDC Steady State Input Range
- 150W Max Output Power
- -40°C to 100°C Operation, -55°C options available
- Cooling Plates and Optional Mounting Flange for Easy Integration
- Synchronous Rectification on Low Voltage Outputs
- MIL-STD 461E/F EMI Performance with filters
- Frequency Synchronization

[Price & Stock Enquiry](#)[View product details](#)**MIL-STD Filter Modules: MTF Series**

The MTF50 is a COTS EMC & Surge filter which has been developed specifically for the defence and avionics market. This product offers a high end specification while offering the short lead times and cost benefits of COTS components.

The MTF50 is designed to filter the conducted emissions of the MTC series DC-DC Converters and protect against conducted susceptibility specified in MIL-STD-461E and surges and spikes specified in MIL-STD-1275A-D and MIL-STD-704A-F.

- Designed as a COTS component for Defence and Avionics
- MIL-STD 810 Environmental Performance
- 15 to 40 VDC Steady State Input Range
- 10 to 50 VDC Transient Input Range
- 50 W Max Output Power
- -55 °C to 100 °C Operation
- Cooling Plates and Mounting Holes for easy integration
- MIL-STD 461E EMI Performance
- MIL-STD 1275A-D & MIL-STD704A-F
- Immunity Performance
- Designed as a COTS component.

[Price & Stock Enquiry](#)[View product details](#)**Amtex Electronics Pty Ltd**

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