Modular MMC Tank Capacitors

DT-200 (TH/HD/UC)

Stackable capacitor modules for high frequency, high current resonators



Features and Specifications

- Compact & stackable for unlimited capacitance
- M3 screw connection & mounting holes
- High frequency & high current capable
- Integrated passive cooling with large surface area
- Quadruple 2oz copper layers
- Addon module for the CRO-SM3 induction heater
- Up to 200V DC

Typical Usage

The DT-200 range of modular tank capacitors are ideal for use in high current resonant systems such as **induction heaters** where small size and high frequency capability are critical. The TH model is for low-cost options, while the HD and HC versions are for space saving and high frequency applications.

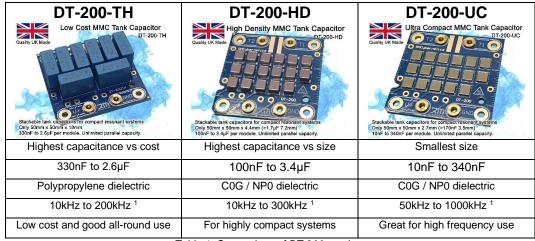


Table 1: Comparison of DT-200 versions

¹ Frequency range is a guide only

Modular Design

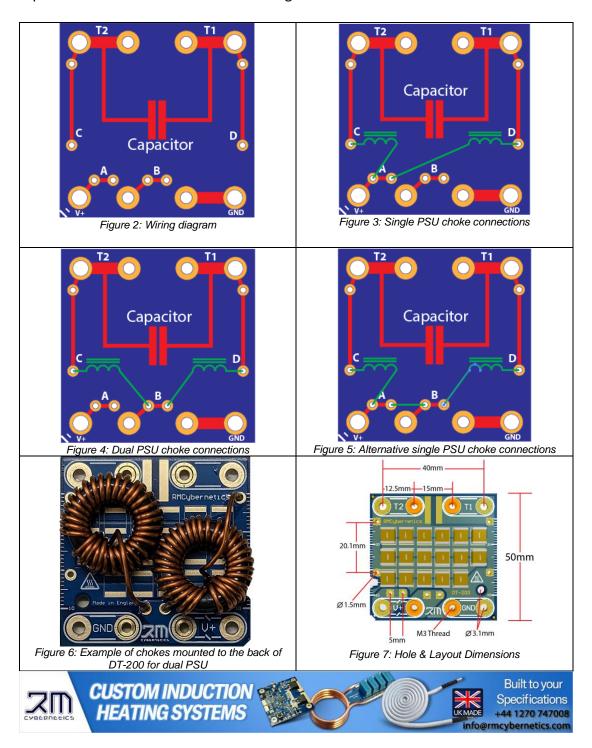


Figure 1: Stacked Modules Example

The DT-200 modules are designed for use with our CRO-SM3 induction heater module. These boards can be mounted to the CRO-SM3 module using standoffs with a spacing to suit your application. With a variety of capacitances available, it is simple to add or change the working capacitance and therefore the resonant frequency of an induction heating system. By simply adding or removing modules, the frequency can be reduced or increased accordingly.

Connections

Main power connections are made using the integrated M3 nuts so that they can be screwed to standard M3 standoffs and stacked together. There are also several solder points available for those wanting to fix chokes to the board. The chokes (shown in green) need to connect between the power supply and the T1/T2 connections. This can be done in a variety of ways. Some examples are shown below. The red lines represent the internal wiring of the PCB, while the green ones represent external connections for adding chokes.



Customisation is available for this product



We can write custom firmware for this product, make custom coils, and help integrate it into your project. Call or email to discuss your requirements.

Tel: 01270 747008 - Email: info@rmcybernetics.com

Related Products

Micro Induction Heater CRO-SM3

Modular MMC Tank Capacitors DT-200

Induction Expansion ModuleEXP-THERM1Micro JST CablesCAB-JSTGH

Custom Induction Coils IHC-CUST

<u>Litz Wire</u> LITZ

Ferrite Powders FP-NIZNMNZN

Non-magnetic Mounting Kit NMMK-M3

100uH 15A Choke CHK-15A

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