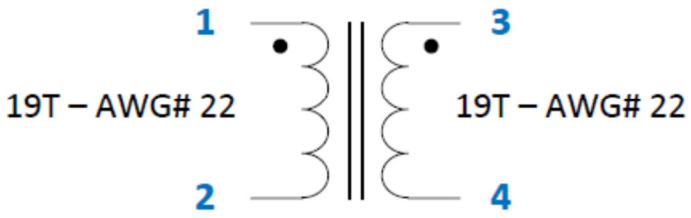
DER-801_L3_Common Mode Choke_EMI.pdf

Output CMC for DER-801



ELECTRICAL SPECIFICATIONS

Inductance	Pins 1-2, 3-4 measured at 10kHz	1.8mH, ±25%

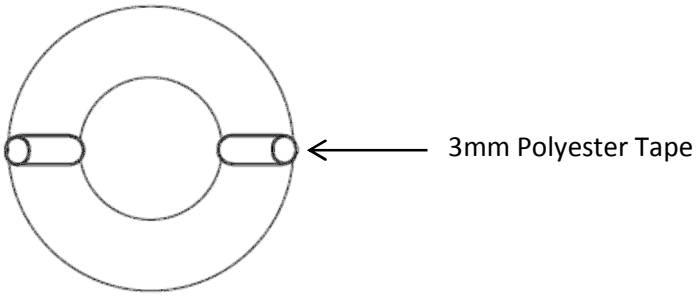
MATERIALS

Item	Description
[1]	Core: JL10 (JLW ELECTRONICS (HONG KONG) LIMITED) AL = 9000 nH/N2 Mfg P/N: T14x8x5.5C-JL10*
[2]	Polyester tape, 1mil thickness, 3mm wide
[3]	Magnetic Wire: 22 AWG
[4]	Number of Turns: 19 each section

*T14x8x5.5C is the physical size, JL10 is the core type

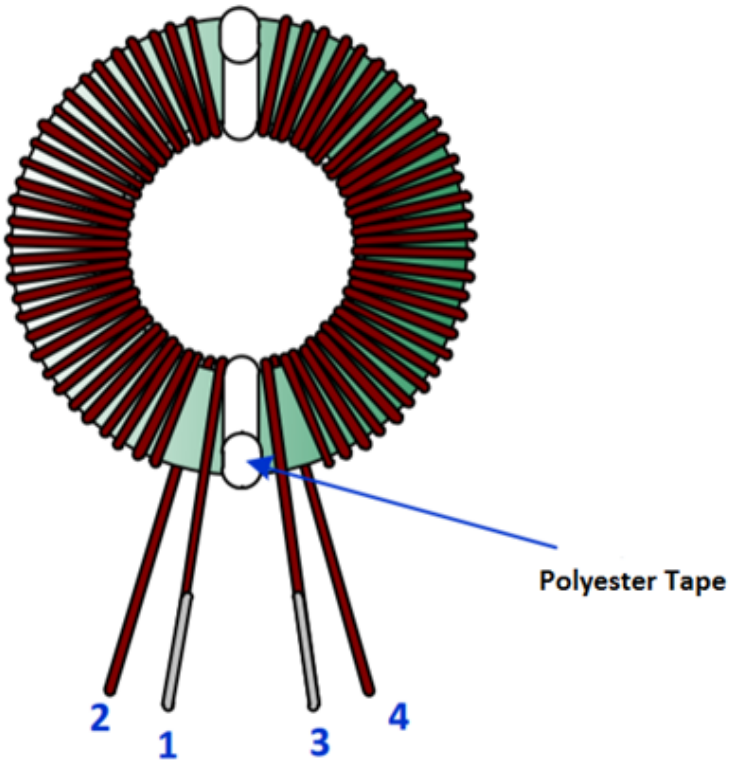
WINDING INSTRUCTION:

1. Wind 5 layers of polyester tape Item [2] (see illustration below) in the two sides of the core to divide it into 2 sections equally.



2. Start winding on one section with 14 turns or completely fill up the section for the 1st layer, then equally spread the remaining turns for the 2nd layer.

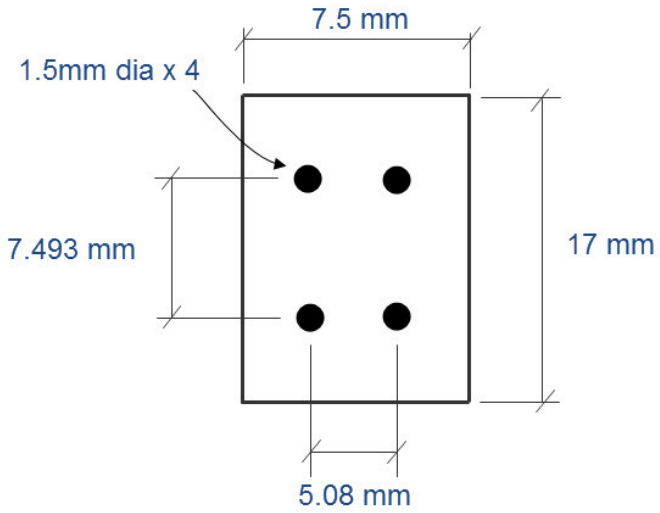
3. Repeat step 2 for the other section winding. Make sure it starts from the SAME side and winding direction as step 2. See picture below.



4. Create a Base support using a PCB bare board, with the specifications below

Base support specifications

Material: PCB Bare board – no copper on both sides, thickness 0.8mm



Finished product