**Transformer 1 (T1)**

Magnetic details

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Core Type | Core Material | Bobbin | Isolation Voltage | Quantity |
| Pq3230 | N87/3C95 |  | - | 1 |

Winding Details

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Winding | No. of Turns | Wire Gauge | Start Pin | End Pin | Inductance |
| W1 | 40 | 2x 26 AWG | 1 | 3 | 300uH |
| W2 | 5 | 6x26 AWG | 8 | 9 |  |
| W3 | 4 | 6x26 AWG | 10 | 11 |  |
| W4 | 6 | Triple insulated wire ~ AWG 30 | 5 | 4 |  |

Inductor Construction –

Winding Procedure:

Wind (W1) in three layers,

 First wind two layers of W1

Reinforced Insulation

Wind 5 turns of (W2) starting at pin 8 and ending at pin 9.

Reinforced Insulation

 wind one layers of W1

Reinforced Insulation

Wind 4 turns of (W2) starting at pin 9 and ending at pin 10.

Use triple insulated wire to wind 6 turns of W4

Gap core suitably to get required primary inductance

Bond the core to avoid audible noise

Vacuum impregnate with varnish