



SMT Power Inductors

SMT Unshielded Power Inductors - TC5022DHP Series / 贴片开放式功率电感

► Power Inductor Features

- Open Magnetic circuit construction
- Compact and thin
- 8mm high for large current and low DCR.
- Rugged self-leaded construction.

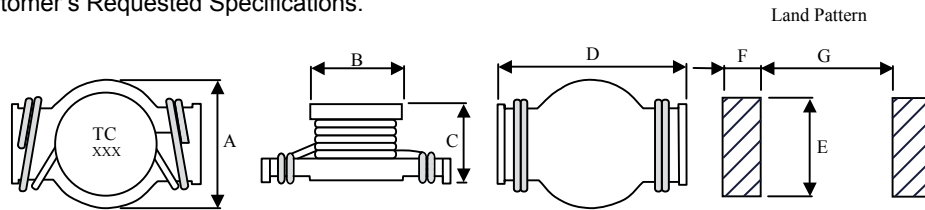
► Applications

- Notebook, Low voltage DC-DC converter

► Power Inductor Dimensions & Configurations (Unit: mm)

| Type | A(max) | B ± 0.3 | C(max) | D(max) | E | F | G |
|-----------|--------|---------|--------|--------|------|------|-------|
| TC5022DHP | 16.26 | 12.70 | 8.00 | 22.35 | 8.64 | 3.18 | 14.35 |

Note: Design as Customer's Requested Specifications.



► Electrical Characteristics for TC5022DHP Series Power Inductors

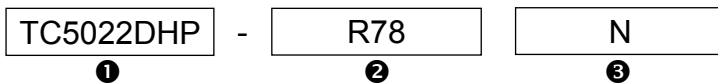
| Part Number | Inductance(μ H) | Test Freq.(KHz) | DCR (Ω)(max) | IDC (A)(max) |
|------------------|----------------------|-----------------|-----------------------|--------------|
| TC5022DHP - R78N | 0.78 | 100 | 0.0026 | 30.00 |
| TC5022DHP - 1R5M | 1.50 | 100 | 0.0040 | 25.00 |
| TC5022DHP - 2R2M | 2.20 | 100 | 0.0061 | 20.00 |
| TC5022DHP - 3R3M | 3.30 | 100 | 0.0086 | 17.00 |
| TC5022DHP - 3R9M | 3.90 | 100 | 0.010 | 15.00 |
| TC5022DHP - 4R7M | 4.70 | 100 | 0.014 | 13.00 |
| TC5022DHP - 6R0M | 6.00 | 100 | 0.017 | 12.00 |
| TC5022DHP - 7R8M | 7.80 | 100 | 0.018 | 11.00 |
| TC5022DHP - 100M | 10.00 | 100 | 0.026 | 10.00 |
| TC5022DHP - 150M | 15.00 | 100 | 0.032 | 8.00 |

Note: Test Freq.: 100KHz / 0.1V

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.

► How to Order



① SMT Unshielded Power Inductors: TC5022DHP

② Inductance

| Code | Inductance |
|------|---------------|
| R78 | 0.78 μ H |
| 1R5 | 1.50 μ H |
| 100 | 10.00 μ H |

③ Tolerance

| Code | Tolerance |
|------|-----------|
| K | 10% |
| L | 15% |
| M | 20% |
| N | 30% |