



# Power Inductors

## SMD Unshielded Power Inductor - TC5022DF Series / 贴片开放式功率电感器

### ► SMD Unshielded Power Inductor Features

- Open Magnetic circuit construction
- Compact and thin
- Mn-Zn material core
- Large Current and Low DCR

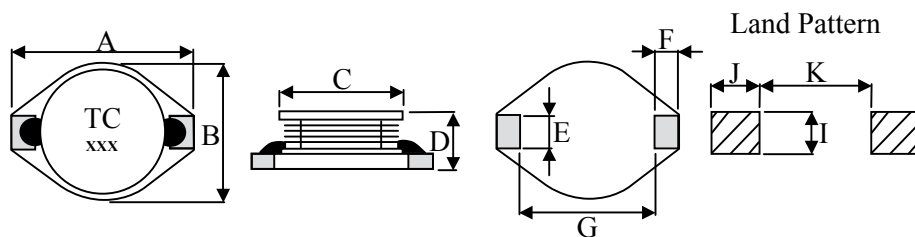
### ► Applications

Notebook, DC/DC converter, handheld devise.

### ► SMD Unshielded Power Inductor Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C ± 0.3	D(max)	E ± 0.3	F ± 0.3	G ± 0.3	I	J	K
TC5022DF	18.54	15.24	12.70	7.11	2.54	2.54	12.70	2.79	2.92	12.45

Note: Design as Customer's Requested Specifications.



### ► Electrical Characteristics for TC5022DF Series SMD Unshielded Power Inductor

Part Number	Inductance(μH)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TC5022DF - 1R0M	1.00	100	0.009	20.00
TC5022DF - 2R2M	2.20	100	0.014	16.00
TC5022DF - 3R3M	3.30	100	0.015	14.00
TC5022DF - 5R6M	5.60	100	0.020	12.00
TC5022DF - 100M	10.00	100	0.031	10.00
TC5022DF - 150M	15.00	100	0.036	8.00
TC5022DF - 220M	22.00	100	0.047	7.00
TC5022DF - 330M	33.00	100	0.066	5.50
TC5022DF - 470M	47.00	100	0.086	4.50
TC5022DF - 680M	68.00	100	0.130	3.50
TC5022DF - 101M	100.00	100	0.190	3.00
TC5022DF - 151M	150.00	100	0.250	2.60
TC5022DF - 221M	220.00	100	0.380	2.40
TC5022DF - 331M	330.00	100	0.560	1.90
TC5022DF - 471M	470.00	100	0.850	1.40
TC5022DF - 681M	680.00	100	1.100	1.20
TC5022DF - 102M	1000.00	100	1.800	1.00

Note: Test Freq.: 100KHz / 0.1V

Operating Temp.: -40°C ~ +85°C

Inductance drop=10% typ. at IDC.



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## ► How to Order

TC5022DF - 1R0 M

①                      ②                      ③

① SMD Unshielded Power Inductors

② Inductance

Code	Inductance
1R0	1.0 $\mu$ H
100	10.00 $\mu$ H
101	100.00 $\mu$ H

③ Tolerance

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

