



Inductors

Power Inductors SMD Shielded - TCR63B/74B/105B Series / 功率电感贴片闭磁式

► Power Inductors SMD Shielded Features

Magnetically shielded construction

Compact and thin

Put the electrode with ferrite core directly, a small surface area allow a high mounting density

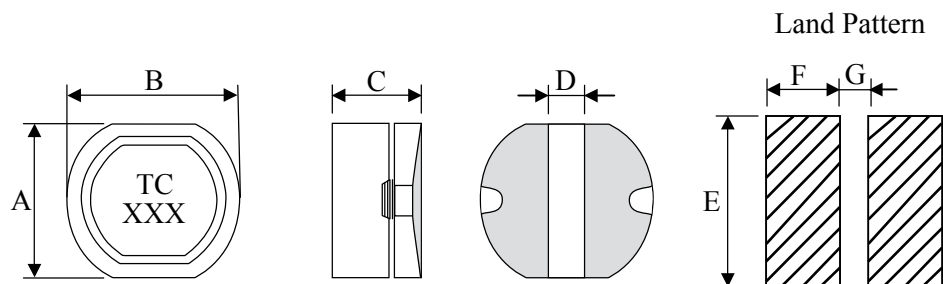
► Applications

VTR, OA equipment, LCD television set, Notebook, portable communication equipments, DC/DC converters, etc..

► Power Inductors SMD Shielded Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C(max)	D(Ref.)	E	F	G
TCR63B	5.90	6.50	3.50	1.45	5.50	2.25	1.70
TCR74B	7.35	8.15	4.90	2.10	7.50	4.00	2.00
TCR105B	9.40	10.40	5.50	2.90	9.50	5.00	2.50

Note: Design as Customer's Requested Specifications.



► Electrical Characteristics for TCR63B Series Shielded Inductors

Part Number	Inductance (μH)	Test Freq. (MHz)	DCR (Ω) (max)	IDC (A) (max)
TCR63B - 100M	10.00	2.52	0.140	1.00
TCR63B - 120M	12.00	2.52	0.160	0.94
TCR63B - 150M	15.00	2.52	0.180	0.86
TCR63B - 180M	18.00	2.52	0.250	0.78
TCR63B - 220M	22.00	2.52	0.320	0.76
TCR63B - 270M	27.00	2.52	0.360	0.64
TCR63B - 330M	33.00	2.52	0.410	0.61
TCR63B - 390M	39.00	2.52	0.470	0.53
TCR63B - 470M	47.00	2.52	0.510	0.50
TCR63B - 560M	56.00	2.52	0.720	0.46
TCR63B - 680M	68.00	2.52	0.820	0.42



Inductors

► Electrical Characteristics for TCR74B Series Shielded Inductors

Part Number	Inductance (μ H)	Test Freq. (Hz)	DCR (Ω) (max)	IDC (A)(max)
TCR74B - 100M	10.00	2.52 M	0.070	1.65
TCR74B - 120M	12.00	2.52 M	0.070	1.57
TCR74B - 150M	15.00	2.52 M	0.080	1.39
TCR74B - 180M	18.00	2.52 M	0.100	1.29
TCR74B - 220M	22.00	2.52 M	0.130	1.12
TCR74B - 270M	27.00	2.52 M	0.160	1.06
TCR74B - 330M	33.00	2.52 M	0.180	0.97
TCR74B - 390M	39.00	2.52 M	0.180	0.91
TCR74B - 470M	47.00	2.52 M	0.270	0.80
TCR74B - 560M	56.00	2.52 M	0.290	0.76
TCR74B - 680M	68.00	2.52 M	0.330	0.68
TCR74B - 820M	82.00	2.52 M	0.430	0.62
TCR74B - 101M	100.00	1 K	0.490	0.55
TCR74B - 121M	120.00	1 K	0.680	0.49
TCR74B - 151M	150.00	1 K	0.940	0.44
TCR74B - 181M	180.00	1 K	1.000	0.40
TCR74B - 221M	220.00	1 K	1.180	0.36
TCR74B - 271M	270.00	1 K	1.300	0.33

► Electrical Characteristics for TCR105B Series Shielded Inductors

Part Number	Inductance (μ H)	Test Freq. (Hz)	DCR (Ω) (max)	IDC (A)(max)
TCR105B - 100M	10.00	2.52 M	0.060	2.06
TCR105B - 120M	12.00	2.52 M	0.070	1.94
TCR105B - 150M	15.00	2.52 M	0.070	1.72
TCR105B - 180M	18.00	2.52 M	0.080	1.58
TCR105B - 220M	22.00	2.52 M	0.080	1.42
TCR105B - 270M	27.00	2.52 M	0.100	1.32
TCR105B - 330M	33.00	2.52 M	0.110	1.16
TCR105B - 390M	39.00	2.52 M	0.120	1.10
TCR105B - 470M	47.00	2.52 M	0.140	1.00
TCR105B - 560M	56.00	2.52 M	0.190	0.93
TCR105B - 680M	68.00	2.52 M	0.210	0.85
TCR105B - 820M	82.00	2.52 M	0.280	0.79
TCR105B - 101M	100.00	1 K	0.340	0.72
TCR105B - 121M	120.00	1 K	0.370	0.63
TCR105B - 151M	150.00	1 K	0.510	0.55
TCR105B - 181M	180.00	1 K	0.570	0.50
TCR105B - 221M	220.00	1 K	0.780	0.47
TCR105B - 271M	270.00	1 K	0.870	0.41
TCR105B - 331M	330.00	1 K	1.200	0.37

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Inductors

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Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A)(max)
TCR105B - 391M	390.00	1 K	1.340	0.35
TCR105B - 471M	470.00	1 K	1.500	0.33

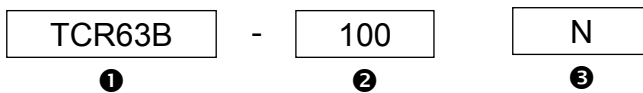
Note: TCR74B-101 ~ 271 Test Freq.: 1KHz / 0.25V.

TCR105B-101 ~ 471 Test Freq.: 1KHz / 0.25V.

Operating Temp. : -40°C ~ +85°C.

Inductance drop = 10% typ. at IDC.

▶ How to Order



❶ SMD Shielded Power Inductors : TCR63B, TCR74B, TCR105B

❷ Inductance

Code	Inductance
100	10.00μH
101	100.00μH

❸ Tolerance

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