

Power Inductor

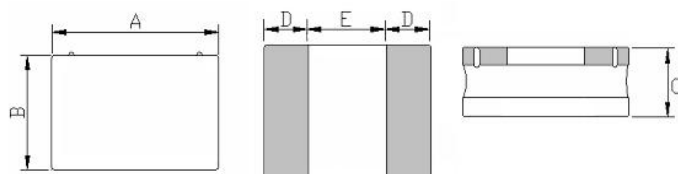
DFP201610TF-SERIES

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature :-40~+125°C (Including self - temperature rise)



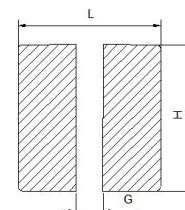
2. Dimension



A	B	C	D	E
2.0 -0.1/+0.2	1.6 -0.1/+0.2	1.0Max	0.65±0.3	0.70±0.3

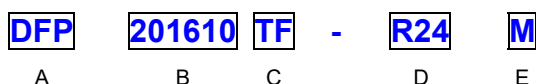
Unit:mm

Recommended PC Board Pattern



L	G	H
2.3	0.7	1.7

3. Part Numbering



A: Series

B: Dimension

C: Lead Free

Material

D: Inductance

R24=0.24uH

E: Inductance Tolerance

K=±10%, L=±15%, M=±20%, Y=±30%.

4. Specification

Part Number	Inductance (uH) ±20% @ 0 A DC	Test Frequency (Hz)	DCR (Ω)		I sat (A)		I rms (A)	
			Typ	Max	Typ	Max	Typ	Max
DFP201610TF-R10M	0.10	0.1V/1M	0.021	0.025	8.00	7.00	5.00	4.40
DFP201610TF-R24M	0.24	0.1V/1M	0.023	0.028	5.10	4.50	4.40	3.90
DFP201610TF-R33M	0.33	0.1V/1M	0.031	0.040	3.90	3.50	3.50	3.10
DFP201610TF-R47M	0.47	0.1V/1M	0.035	0.042	3.85	3.40	3.30	3.00
DFP201610TF-R68M	0.68	0.1V/1M	0.046	0.055	3.25	2.80	2.80	2.50
DFP201610TF-1R0M	1.00	0.1V/1M	0.059	0.072	2.90	2.50	2.40	2.20
DFP201610TF-1R5M	1.50	0.1V/1M	0.098	0.118	2.30	1.80	2.10	1.80
DFP201610TF-2R2M	2.20	0.1V/1M	0.141	0.170	2.10	1.70	1.70	1.55
DFP201610TF-2R7M	2.70	0.1V/1M	0.180	0.216	1.60	1.40	1.50	1.30
DFP201610TF-3R3M	3.30	0.1V/1M	0.260	0.312	1.40	1.20	1.30	1.10
DFP201610TF-4R7M	4.70	0.1V/1M	0.320	0.384	1.00	0.90	1.00	0.90
DFP201610TF-330M	33.0	0.1V/1M	2.600	3.100	0.40	0.35	0.25	0.20

Note:

Heat Rated Current (I_{rms}) will cause the coil temperature rise approximately ΔT of 40°CSaturation Current (I_{sat}) will cause L₀ to drop approximately 30%.Rated DC current: The lower value of I_{rms} and I_{sat}.

10. Typical Performance Curves

