TDRH-C Series ( )

Applications

* For use in a variety of circuits including flyback, multi-output buck and SEPIC.
* Power supply for LED,etc.

Features

* RoHS compliant
* High inductance, high efficiency and excellent current handling in a rugged, low cost part.
* 2 in 1 package coil for up-down converter (SEPIC and ZETA) and step up converter (Auto transformer).
* Can also be used as 2 single inductors connected in series or parallel, as a common mode choke or as a 1:1 transformer.

Operating & Storage Condition

* Operating Temp :Stand Type:-40 to +105°C
* Storage Life Time:12 months @25°C, RH 65%
* Storage Temp : Stand Type -40 to +85°C

Product Identification

TDRH	74	C	-	220	M
1	2	3		4	5

1. Product Code
2. Size Code
3. Coupled Inductor
4. Inductance: 22 uH
5. Tolerance: M = ±20%

Test Equipment

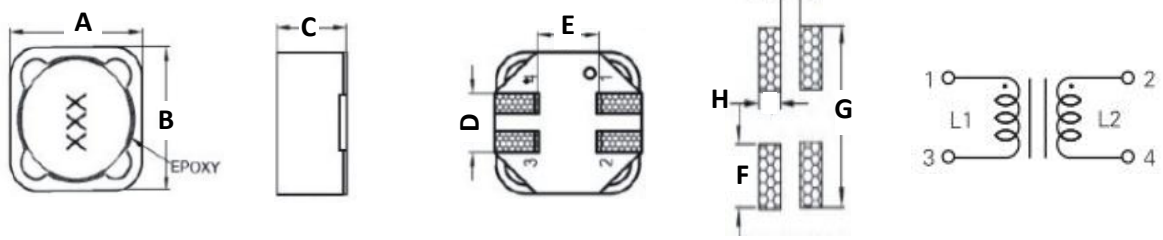
* HP4284A,HP42841A-L,IDC,Q,RDC
* HP8753D NETWORK ANALYZER-SRF

Standard Atmospheric Conditions

* Ambient Temp : 20+/-15°C
* Relative Humidity : 65+/-20%

Dimension & Recommended Pad Layout: [mm]

Top View	Side View	Bottom View	Pad Layout	Schematic



Size Code	A(±0.3)	B(±0.3)	C(max.)	D(ref.)	E(ref.)	F(ref.)	G(ref.)	H(ref.)	I(ref.)
74	7.3	7.3	4.6	2.7	4.5	1.5	7.2	0.9	0.6
104	10.0	10.0	5.0	3.0	5.8	2.4	10.2	1.3	0.8

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Electrical Characteristics

Part No.	Inductance L1=L2 (uH)	DCR (mΩ) max.	Isat. (A) max.	Irms. (A) max.
TDRH74C-2R5M	2.5	33	6.20	3.00
TDRH74C-3R3M	3.3	37	5.30	2.80
TDRH74C-4R7M	4.7	51	4.30	2.40
TDRH74C-5R6M	5.6	63	4.10	2.20
TDRH74C-6R8M	6.8	70	3.80	2.10
TDRH74C-8R2M	8.2	75	3.40	2.00
TDRH74C-100M	10.0	100	2.90	1.70
TDRH74C-120M	12.0	120	2.60	1.60
TDRH74C-150M	15.0	130	2.30	1.50
TDRH74C-180M	18.0	170	2.20	1.30
TDRH74C-220M	22.0	220	2.00	1.15
TDRH74C-270M	27.0	250	1.80	1.10
TDRH74C-330M	33.0	270	1.60	1.05
TDRH74C-390M	39.0	380	1.40	0.90
TDRH74C-470M	47.0	420	1.30	0.85
TDRH74C-560M	56.0	460	1.20	0.82
TDRH74C-680M	68.0	600	1.10	0.72
TDRH74C-820M	82.0	680	1.00	0.67
TDRH74C-101M	100.0	770	0.90	0.63
TDRH74C-121M	120.0	1030	0.80	0.55
TDRH74C-151M	150.0	1350	0.75	0.48
TDRH74C-181M	180.0	1520	0.65	0.45
TDRH74C-221M	220.0	1720	0.60	0.42
TDRH74C-271M	270.0	2410	0.50	0.36
TDRH74C-331M	330.0	2700	0.50	0.34
TDRH74C-391M	390.0	3050	0.45	0.30
TDRH74C-471M	470.0	4000	0.43	0.28
TDRH74C-561M	560.0	4430	0.40	0.26
TDRH74C-681M	680.0	5000	0.35	0.25
TDRH74C-821M	820.0	6800	0.30	0.20
TDRH74C-102M	1000.0	7800	0.25	0.20
TDRH104C-2R2M	2.2	20	8.5	3.0
TDRH104C-100M	10.0	55	4.0	1.9
TDRH104C-220M	22.0	100	2.5	1.7
TDRH104C-470M	47.0	220	1.8	1.4
TDRH104C-680M	68.0	310	1.5	1.2
TDRH104C-101M	100.0	400	1.1	1.0
TDRH104C-221M	220.0	850	0.8	0.7

* Test Condition: @100KHz/0.1V (Ambient temperature: 25°C)
* Isat.: Based on L drop 20%
* Irms.: The actual value of D.C. current when the temperature rise is △t＝40℃(Ta＝20℃).
* Tolerance: M=±20%
* Turns Ratio: L1 : L2 = 1 : 1