

**TDOH Series ( Rev. 1.0 )**



**Features**

- \* High current & low DCR
- \* Carrier tape package for SMT reflow soldering process
- \* Unshielded power inductor

**Product Identification**

<u>TDOH</u>	<u>0503</u>	-	<u>100</u>	<u>M</u>
1	2		3	4

1. Product Code
2. Size Code
3. Inductance : 10uH
4. Tolerance: M=±20%, N=±30%

TDOH series is specially designed for high current, low voltage DC-DC converter applications.

**Applications**

\* DC-DC converter/LCD TV/Notebook/DVD etc

**Operating & Storage Condition**

- \* Operating Temp. : -55 to +125°C
- \* Storage Temp. : -25 to +35°C
- \* Storage Life Time : 12 Months @25°C , RH 65%

**Test Equipment**

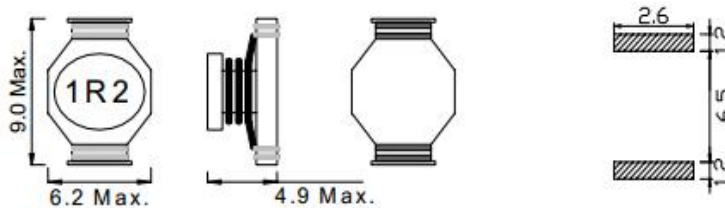
- \* HP4284A, HP42841A-L, IDC, Q, RDC
- \* HP8573D Network Analyzer-SRF

**Standard Atmospheric Conditions**

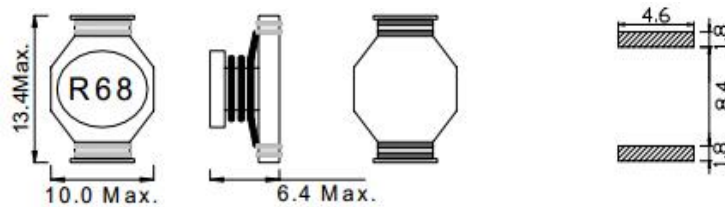
- \* Ambient Temp : 20+/-15°C
- \* Relative Humidity : 65+/-20%

**Dimension & Recommended PAD Layout: [ mm ]**

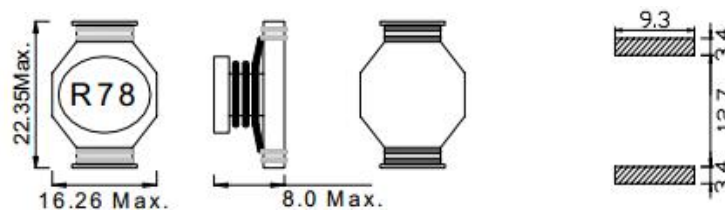
**TDOH0503 Series**



**TDOH0804 Series**



**TDOH1608 Series**



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## Electrical Characteristics

P/N	Inductance (uH)	DCR (Ω) max.	Isat (A) typ.	Irms (A) typ.
TDOH0503-1R2M	1.2	17.0	5.30	4.40
TDOH0503-2R2M	2.2	35.0	3.50	3.10
TDOH0503-3R3M	3.3	40.0	3.00	2.70
TDOH0503-4R7M	4.7	54.0	2.60	2.20
TDOH0503-6R8M	6.8	80.0	2.20	1.80
TDOH0503-100M	10.0	110.0	1.90	1.50
TDOH0503-150M	15.0	170.0	1.50	1.20
TDOH0503-220M	22.0	250.0	1.20	1.00
TDOH0503-330M	33.0	350.0	0.99	0.82
TDOH0503-470M	47.0	470.0	0.87	0.72
TDOH0804-R68N	0.68	5.0	13.0	12.0
TDOH0804-1R0M	1.00	6.0	11.0	10.0
TDOH0804-1R5M	1.50	8.0	9.0	9.0
TDOH0804-2R2M	2.20	11.0	7.8	7.4
TDOH0804-2R7M	2.70	12.0	7.0	6.6
TDOH0804-3R3M	3.30	14.0	6.4	5.9
TDOH0804-4R7M	4.70	18.0	5.4	4.8
TDOH1608-R78N	0.78	3.0	30.0	15.0
TDOH1608-1R5M	1.50	4.0	25.0	15.0
TDOH1608-2R2M	2.20	6.0	20.0	12.0
TDOH1608-3R3M	3.30	9.0	17.0	10.0
TDOH1608-3R9M	3.90	10.0	15.0	9.0
TDOH1608-4R7M	4.70	14.0	13.0	8.4
TDOH1608-6R0M	6.00	17.0	12.0	7.5
TDOH1608-7R8M	7.80	18.0	11.0	7.5
TDOH1608-100M	10.00	26.0	10.0	6.0
TDOH1608-150M	15.00	32.0	8.0	4.4
TDOH1608-220M	22.00	47.0	7.0	3.5
TDOH1608-330M	33.00	66.0	5.5	3.0
TDOH1608-470M	47.00	86.0	4.5	2.6
TDOH1608-680M	68.00	130.0	3.5	2.3
TDOH1608-101M	100.00	190.0	3.0	1.8
TDOH1608-151M	150.00	250.0	2.6	1.5
TDOH1608-221M	220.00	380.0	2.4	1.2
TDOH1608-331M	330.00	560.0	1.9	1.0
TDOH1608-471M	470.00	850.0	1.4	0.8
TDOH1608-681M	680.00	1100.0	1.2	0.7
TDOH1608-102M	1000.00	1800.0	1.0	0.6

\* Test Condition: @1KHz / 0.1V

\* The Isat is the current at which the inductance decreases by 10% from the initial value

\* The I rms by Stand-Type is the current at which the temperature rise is  $\Delta T \leq 40^{\circ}\text{C}$ , whichever ( $T_a = 20^{\circ}\text{C}$ )

\* Inductance tolerance: M=±20%, N=±30%

