

TWHA series (Rev. 1.0)



Features

- * Very strong solderability
- * Highly accurate dimensions
- * Terminals are highly resistant to external forces
- * Highly resistant to mechanical shocks and pressure
- * Minimize the noise and howling

Product Identification

TWHA
0603
-
100
□

1
2
3
4

1. Product Code
2. Size Code
3. Inductance: 10uH
4. Tolerance: J=±5%, K=±10%, M=±20%

TWHA is the newest ferrite wire wound chip inductors.
Coil covered with glue can effectively protect the coil.
Greatly improved EMI shielding effect.

Applications

- * Telecom and datacom applications such as Xdsl
- * Cable modem
- * Set-top box
- * CATV filter/tuner
- * Wireless LAN, etc

Operating & Storage Condition

- * Operating Temp : -40 to +125°C
- * Storage Temp : -40 to +125°C
- * Storage Life Time: 12 Months @25°C , RH 65%

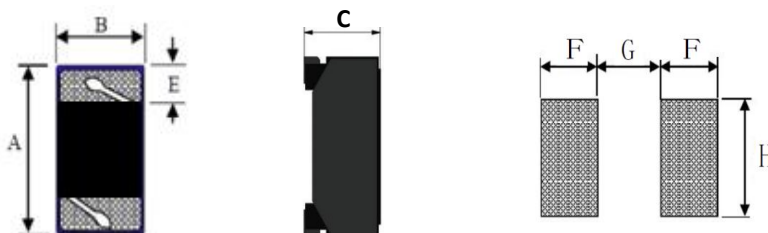
Test Equipment

- * HP4291A-Z, HP4284A, HP42841A- L, IDC, Q, RDC
- * HP8753D Setwork Analyzer- SRF

Standard Atmospheric Conditions

- * Ambient Temp : 20±15°C
- * Relative Humidity : 75±10%

Dimension & Recommended PAD Layout: [mm]



Size Code	A(max.)	B(max.)	C(max.)	E(±0.1)	F(typ.)	G(typ.)	H(typ.)
0603	1.80	1.30	1.30	0.33	0.64	0.64	1.02

Electrical Characteristics

P/N	Inductance (uH)	Test Freq. (MHz)	DCR (mΩ) max.	Isat. (mA) typ.	Irms. (mA) typ.
TWHA0603-1R0□	1.0	1.0	195	550	1200
TWHA0603-2R2□	2.2	1.0	390	450	750
TWHA0603-4R7□	4.7	1.0	559	300	600
TWHA0603-100□	10.0	1.0	1430	200	380
TWHA0603-150□	15.0	1.0	2340	150	300
TWHA0603-220□	22.0	1.0	2860	100	250

- * I_{rms} DC current (A) that will cause an approximate ΔT of 40°C
- * I_{sat} DC current (A) that will cause L to drop approximately 30%

