

## FWHC series (Rev. 4.0)



## Features

- \* Very strong solderability by reflow soldering and soldering iron
- \* Highly accurate dimensions
- \* Terminals are highly resistant to external forces
- \* Highly resistant to mechanical shocks and pressure
- \* Highly reliable in environments of sudden temperature change and humidity

## Product Identification

**FWHC**      **0603**      -      **4R7**      **K**      **L**  
 1                      2                      3                      4                      5

1. Product Code
2. Size Code
3. Inductance: 4.7uH
4. Tolerance: K=±10%
5. Internal Code

FWHC Series is the newest in open type ferrite wire wound chip inductors. Wire wound ferrite construction supports higher SRF, lower DCR & superior Q values than other ferrite chip inductors.

## Applications

- \* Cable modem/ Set-top box/ CATV filter/ Wireless LAN, etc



Bluetooth Headset

## Operating &amp; Storage Condition :

- \* Operating Temp : -40 to +85 °C
- \* Storage Temp : -40 to +85 °C
- \* Storage Life Time: 12 Months @25 °C , RH 65%

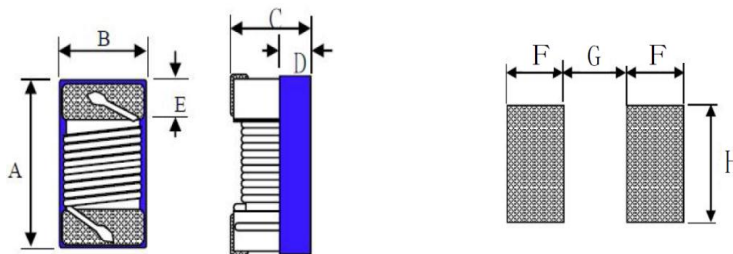
## Test Equipment :

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

## Standard Atmospheric Conditions :

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

## Dimension &amp; Recommended PAD Layout: [ mm ]



Size Code	A(max.)	B(max.)	C(max.)	D(ref.)	E(±0.1)	F(typ.)	G(typ.)	H(typ.)
0603	1.80	1.25	1.20	0.45	0.33	0.64	0.64	1.02

## Electrical Characteristics

P/N	Inductance (uH) ±10%	Q @7.9MHz	SRF (MHz)	DCR (Ω)	Irms. (mA) max.	Color Code
FWHC0603-2R2KL	2.2 @7.9MHz	12 min.	180 min	2.3 max.	280	N/A
FWHC0603-4R7KL	4.7 @7.9MHz	12 min.	100 min.	4.0 max.	200	N/A
FWHC0603-100KL	10 @2.5MHz	10 min.	25 min.	4.8 max.	180	N/A
FWHC0603-2R2K	2.2 @7.9MHz	12 min.	50 min.	0.45 ±20%	600	Orange
FWHC0603-4R7K	4.7 @7.9MHz	12 min.	51 min.	0.82 ±20%	400	Violet
FWHC0603-100K	10 @2.5MHz	14 min.	36 min.	2.00 ±20%	280	Brown

\* Irms: DC current that will cause an approximate ΔT of 40°C.

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## Product Identification

**FWHC**      **0805**      -      **4R7**      **K**      **L**  
 1                      2                      3                      4                      5

1. Product Code
2. Size Code
3. Inductance: 4.7uH
4. Tolerance: K=±10%
5. Internal Code

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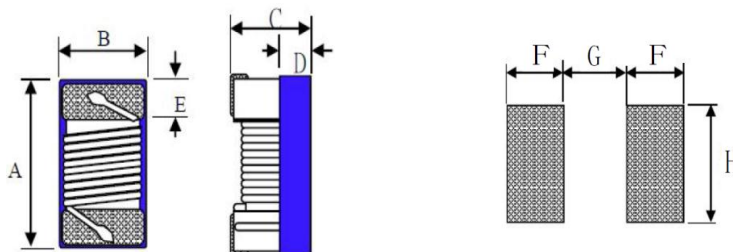
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## Dimension &amp; Recommended PAD Layout: [ mm ]



Size Code	A(max.)	B(max.)	C(max.)	D(ref.)	E(±0.1)	F(typ.)	G(typ.)	H(typ.)
0805	2.29	1.73	1.52	0.65	0.44	1.02	0.76	1.78

## Electrical Characteristics

P/N	Inductance (uH) ±10%	Q @7.9MHz	SRF (MHz)	DCR (Ω)	I <sub>rms</sub> . (mA) max.	Color Code
FWHC0805-2R2KL	2.2 @7.9MHz	12 min.	170 min.	1.50 max.	350	N/A
FWHC0805-4R7KL	4.7 @7.9MHz	12 min.	85 min.	2.05 max.	250	N/A
FWHC0805-100KL	10 @2.5MHz	10 min.	30 min.	3.20 max.	150	N/A
FWHC0805-2R2K	2.2 @7.9MHz	12 min.	80 min.	0.26 ±20%	740	Red
FWHC0805-4R7K	4.7 @7.9MHz	14 min.	51 min.	0.48 ±20%	520	Yellow
FWHC0805-100K	10 @2.5MHz	14 min.	25 min.	0.98 ±20%	290	Blue

\* I<sub>rms</sub>: DC current that will cause an approximate ΔT of 40°C.