

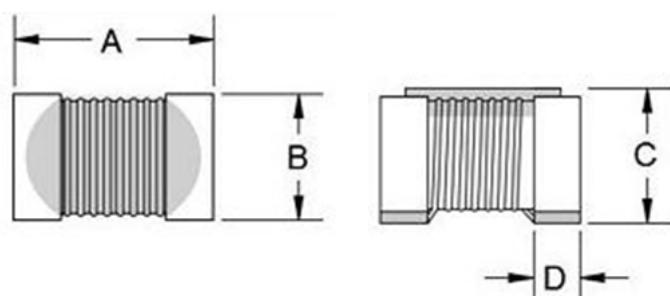
High Frequency Winding Type Chip Inductor SWI0603PHF-SERIES

1. Features

1. Ceramic core wire wound construction.
2. No batch to batch variations in inductance.
3. High Reliability due to ceramic wire wound construction.
4. High frequency application.
5. Small footprint as well as low profile.
6. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
7. Operating temperature-40~+125°C (Including self - temperature rise).



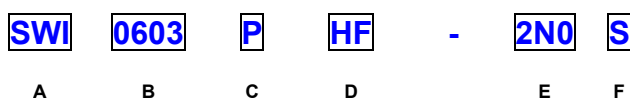
2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)
SWI0603	1.50±0.30	1.00±0.20	1.00±0.10	0.35±0.10

Unit:mm

3. Part Numbering



- A: Series
 B: Dimension L x W
 C: Control S/N
 D: Lead free type
 E: Inductance 2N0=2.0nH
 F: Inductance Tolerance C=±0.2nH, S=±0.3nH, J=±5%, K=±10%

4. Specification

Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q @ 250MHz min.	IDC (mA) max.	DCR (Ω) max.	SRF (MHz) typ.
SWI0603PHF-2N0□	2.0	C,S	0.1V/250M	13	700	0.07	8000
SWI0603PHF-3N9□	3.9	C,S	0.1V/250M	22	700	0.07	6900
SWI0603PHF-4N7□	4.7	C,K	0.1V/250M	20	700	0.12	5800
SWI0603PHF-6N8□	6.8	C,J,K	0.1V/250M	27	700	0.08	5800
SWI0603PHF-8N2□	8.2	C,J,K	0.1V/250M	30	700	0.13	4200
SWI0603PHF-10N□	10	J,K	0.1V/250M	31	700	0.13	4800
SWI0603PHF-12N□	12	J,K	0.1V/250M	35	700	0.13	4000
SWI0603PHF-15N□	15	J,K	0.1V/250M	35	700	0.13	4000
SWI0603PHF-18N□	18	J,K	0.1V/250M	35	700	0.16	3100

Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q @ 250MHz min.	IDC (mA) max.	DCR (Ω) max.	SRF (MHz) typ.
SWI0603PHF-22N□	22	J,K	0.1V/250M	38	700	0.23	3000
SWI0603PHF-24N□	24	J,K	0.1V/250M	38	700	0.13	2800
SWI0603PHF-27N□	27	J,K	0.1V/250M	40	600	0.14	2800
SWI0603PHF-33N□	33	J,K	0.1V/250M	40	600	0.22	2300
SWI0603PHF-39N□	39	J,K	0.1V/250M	40	600	0.30	2200
SWI0603PHF-47N□	47	J,K	0.1V/200M	38	600	0.35	2000
SWI0603PHF-56N□	56	J,K	0.1V/200M	38	600	0.37	1900
SWI0603PHF-68N□	68	J,K	0.1V/200M	37	600	0.43	1700
SWI0603PHF-72N□	72	J,K	0.1V/150M	34	400	0.42	1700
SWI0603PHF-82N□	82	J,K	0.1V/150M	34	400	0.71	1700
SWI0603PHF-R10□	100	J,K	0.1V/150M	34	400	0.78	1400
SWI0603PHF-R12□	120	J,K	0.1V/150M	32	300	0.84	1300
SWI0603PHF-R15□	150	J,K	0.1V/150M	28	280	0.96	990
SWI0603PHF-R18□	180	J,K	0.1V/100M	25	240	1.52	990
SWI0603PHF-R22□	220	J,K	0.1V/100M	25	200	2.02	900
SWI0603PHF-R27□	270	J,K	0.1V/100M	24	170	2.36	900
SWI0603PHF-R33□	330	J,K	0.1V/100M	24	185	3.40	700
SWI0603PHF-R39□	390	J,K	0.1V/100M	24	100	3.60	900

Note:

- All test data referenced to 25°C ambient.

5. Recommended PC Board Pattern

Chip size						Land Patterns For Reflow Soldering		
Series	Type	A(mm)	B(mm)	C(mm)	D(mm)	L(mm)	G(mm)	H(mm)
SWI	0603	1.50±0.30	1.00±0.20	1.00±0.10	0.35±0.10	1.92	0.90	1.02

