

Winding Type Chip Inductor

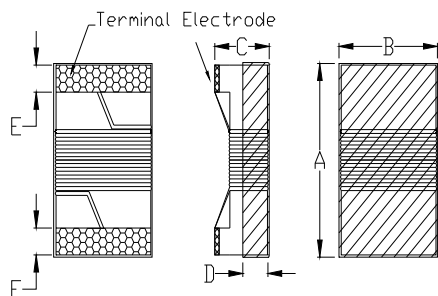
SWF1608LV-SERIES

1. Features

1. Ferrite core wire wound construction.
2. High Reliability due to wire wound type construction.
3. Small footprint as well as low profile.
4. Application for Signal Use.
5. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
6. High reliability -Reliability tests comply with AEC-Q200
7. Operating temperature -55~+125°C (Including self - temperature rise)



2. Dimensions



Size	A	B	C	D	E
SWF1608	1.65±0.15	1.15±0.15	1.05±0.15	0.38 ref.	0.35±0.10

Unit:mm

3. Part Numbering

SWF	1608	L	V	-	R10	K
A	B	C	D		E	F

A: Series

B: Dimension

C: Application

D: Category Code

E: Inductance

F: Inductance Tolerance

L x W

For Signal Use

V=Vehicle

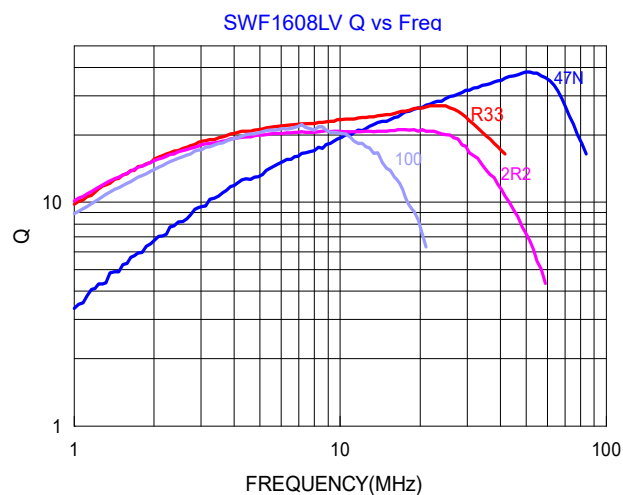
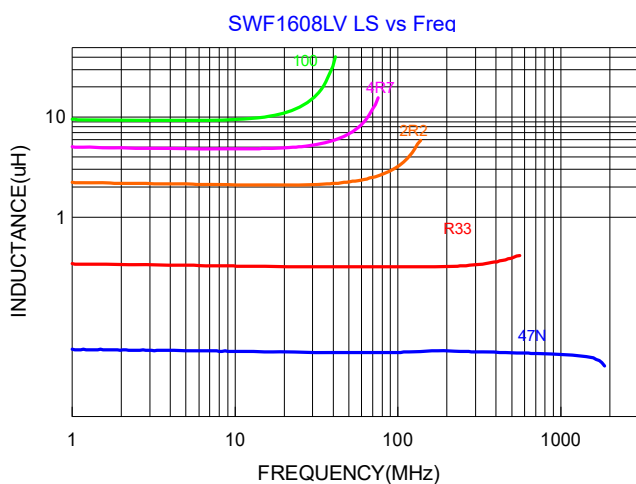
R10=0.1uH

J=±5%,K=±10%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	Q Typ	Test Frequency (MHz)	SRF (MHz) typ.	DCR (Ω) max.	IDC (mA) max.
SWF1608LV-47N□	0.047	K	0.5V/7.9M	17	7.9	1700	0.075	1500
SWF1608LV-72N□	0.072	K	0.5V/7.9M	17	7.9	1700	0.12	1500
SWF1608LV-R10□	0.10	K	0.5V/7.9M	17	7.9	1500	0.12	1500
SWF1608LV-R12□	0.12	K	0.5V/7.9M	17	7.9	1350	0.15	1500
SWF1608LV-R15□	0.15	K	0.5V/7.9M	17	7.9	1350	0.15	1450
SWF1608LV-R18□	0.18	K	0.5V/7.9M	17	7.9	1150	0.15	1400
SWF1608LV-R33□	0.33	K	0.5V/7.9M	17	7.9	850	0.46	900
SWF1608LV-R39□	0.39	K	0.5V/7.9M	17	7.9	810	0.51	1100
SWF1608LV-R47□	0.47	K	0.5V/7.9M	17	7.9	720	0.62	1050
SWF1608LV-R56□	0.56	K	0.5V/7.9M	17	7.9	600	0.44	850
SWF1608LV-R68□	0.68	K	0.5V/7.9M	17	7.9	600	0.52	850
SWF1608LV-R82□	0.82	K	0.5V/7.9M	17	7.9	480	0.69	750
SWF1608LV-R91□	0.91	K	0.5V/7.9M	17	7.9	330	0.76	670
SWF1608LV-1R0□	1.00	K	0.5V/7.9M	17	7.9	310	0.81	600

TAI-TECH Part Number	Inductance (μ H)	Tolerance	Test Frequency (Hz)	Q Typ	Test Frequency (MHz)	SRF (MHz) typ.	DCR (Ω) max.	IDC (mA) max.
SWF1608LV-1R2□	1.20	K	0.5V/7.9M	17	7.9	270	0.87	550
SWF1608LV-1R5□	1.50	K	0.5V/7.9M	17	7.9	270	1.06	540
SWF1608LV-1R8□	1.80	K	0.5V/7.9M	17	7.9	230	1.1	520
SWF1608LV-2R2□	2.20	K	0.5V/7.9M	17	7.9	130	1.2	500
SWF1608LV-2R7□	2.70	K	0.5V/7.9M	17	7.9	105	1.5	480
SWF1608LV-3R3□	3.30	K	0.5V/7.9M	17	7.9	84	1.5	440
SWF1608LV-3R9□	3.90	K	0.5V/7.9M	17	7.9	80	1.6	430
SWF1608LV-4R7□	4.70	J,K	0.5V/7.9M	18	7.9	69	2.1	420
SWF1608LV-5R6□	5.60	J,K	0.5V/7.9M	18	7.9	65	2.6	350
SWF1608LV-6R8□	6.80	J,K	0.5V/7.9M	19	7.9	55	3.1	330
SWF1608LV-7R8□	7.80	J,K	0.5V/7.9M	17	7.9	47	3.5	320
SWF1608LV-8R2□	8.20	J,K	0.5V/7.9M	17	7.9	42	3.8	300
SWF1608LV-100□	10.00	J,K	0.5V/7.9M	19	7.9	40	4.8	270



5. Recommended PC Board Pattern

Chip size							Land Patterns For Reflow Soldering		
Series	Type	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	L(mm)	G(mm)	H(mm)
SWF	1608	1.65±0.15	1.15±0.15	1.05±0.15	0.38 ref	0.35±0.10	1.86	0.80	1.07

