

SLS Series is the newest combo in open type ferrite wire wound chip inductors. The wire wound ferrite construction provides higher SRF, lower DCR, and superior Q values than other ferrite chip inductors.



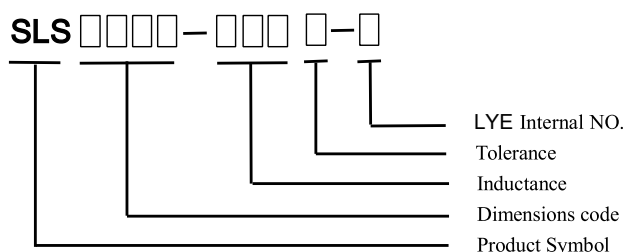
■ FEATURES

- RoHS compliant
- Very strong solderability by reflow soldering and soldering iron
- Highly accurate dimensions can be mounted automatically
- Terminals are highly resistant to pull forces
- Highly resistant to mechanical shocks and pressure.
- Highly reliable in environments of sudden temperature change and humidity.
- Low DCR & better Q value in ferrite series

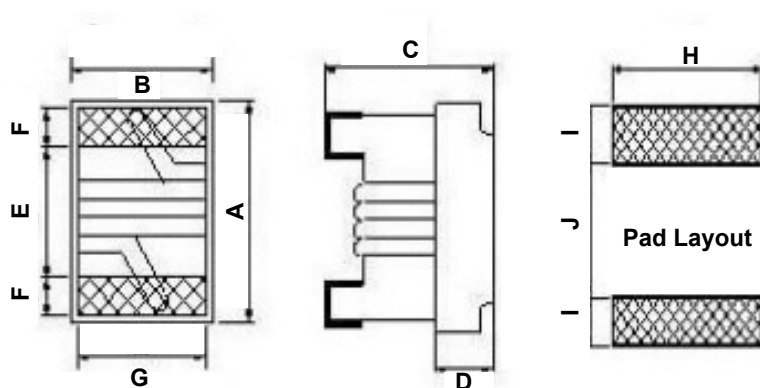
■ APPLICATIONS

- Telecom and datacom applications such as xDSL, Cable Modem, Ser-top Box, CATV filter/tuner, wireless LAN, and so on.

■ PRODUCT IDENTIFICATION



■ SHAPES & DIMENSIONS / RECOMMENDED PATTERN



Dimensions in mm

TYPE	A Max	B Max	C Max	D	E	F	G	H	I	J
SLS0603	1.8	1.25	1.02	0.38	0.86	0.33	0.76	1.02	0.64	0.64
SLS0805	2.4	1.72	1.52	0.70	1.02	0.50	1.27	1.78	1.02	0.76
SLS1008	2.99	2.50	2.20	0.70	1.52	0.51	2.03	2.54	1.02	1.27

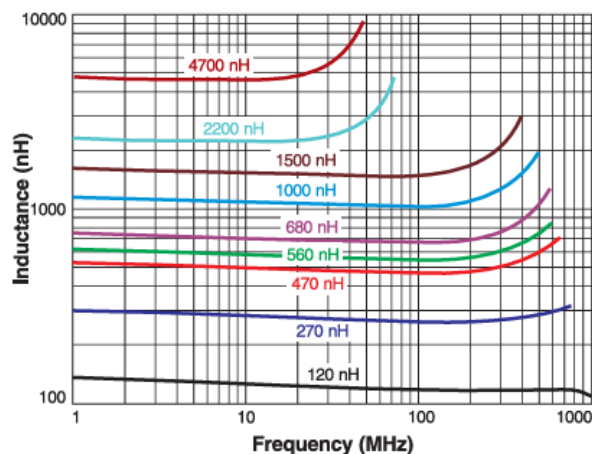
ELECTRICAL CHARACTERISTICS

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	Q Typ.	SRF (MHz) Min	Rdc (Ω) Max	Idc (mA)
SLS0603-47N□-N	0.047	7.9	10 / 5	17	1700	0.075	1500
SLS0603-72N□-N	0.072	7.9	10 / 5	17	1700	0.12	1500
SLS0603-R10□-N	0.10	7.9	10 / 5	17	1650	0.13	1500
SLS0603-R12□-N	0.12	7.9	10 / 5	17	1350	0.15	1500
SLS0603-R15□-N	0.15	7.9	10 / 5	17	1350	0.15	1450
SLS0603-R18□-N	0.18	7.9	10 / 5	17	1150	0.15	1400
SLS0603-R22□-N	0.22	7.9	10 / 5	17	1050	0.16	1350
SLS0603-R24□-N	0.24	7.9	10 / 5	17	1050	0.19	1300
SLS0603-R27□-N	0.27	7.9	10 / 5	17	1050	0.30	1050
SLS0603-R33□-N	0.33	7.9	10 / 5	17	850	0.46	1200
SLS0603-R39□-N	0.39	7.9	10 / 5	17	810	0.51	1200
SLS0603-R47□-N	0.47	7.9	10 / 5	17	720	0.62	1050
SLS0603-R56□-N	0.56	7.9	10 / 5	17	600	0.44	850
SLS0603-R68□-N	0.68	7.9	10 / 5	17	600	0.52	850
SLS0603-R78□-N	0.78	7.9	10 / 5	17	460	0.83	850
SLS0603-R82□-N	0.82	7.9	10 / 5	17	480	0.69	750
SLS0603-1R0□-N	1.0	7.9	10 / 5	18	310	0.81	600
SLS0603-1R2□-N	1.2	7.9	10 / 5	17	270	0.87	550
SLS0603-1R5□-N	1.5	7.9	10 / 5	17	270	1.06	540
SLS0603-1R8□-N	1.8	7.9	10 / 5	17	230	1.10	520
SLS0603-2R2□-N	2.2	7.9	10 / 5	17	140	1.20	500
SLS0603-2R7□-N	2.7	7.9	10 / 5	17	105	1.50	480
SLS0603-3R3□-N	3.3	7.9	10 / 5	17	84	1.50	440
SLS0603-3R9□-N	3.9	7.9	10 / 5	17	80	1.60	430
SLS0603-4R7□-N	4.7	7.9	10 / 5	18	69	2.10	420
SLS0603-5R6□-N	5.6	7.9	10 / 5	18	65	2.60	400
SLS0603-6R8□-N	6.8	7.9	10 / 5	19	55	3.10	400
SLS0603-7R8□-N	7.8	7.9	10 / 5	17	47	3.50	400
SLS0603-8R2□-N	8.2	7.9	10 / 5	17	42	3.80	400
SLS0603-100□-N	10	7.9	10 / 5	19	40	4.80	300

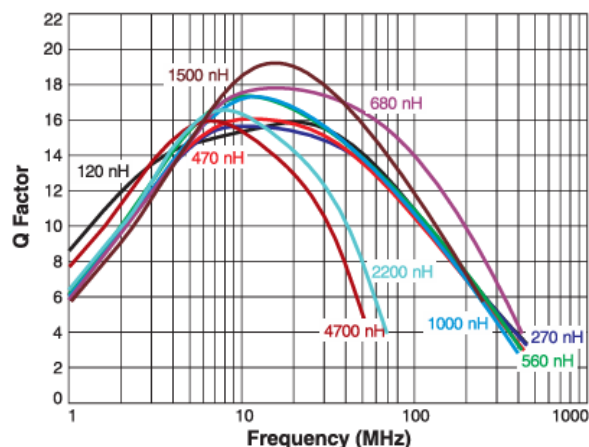
- When ordering, please specify tolerance and packaging codes.
- Tolerance : J = ±5% , K = ±10%
- L , Q : Agilent E4991A+ Agilent HP16197A
- SRF : Agilent E4991A

- Rdc : CH502BC/ HP4338B
- Idc for Inductance drop 10% from its value without current.
- Operating temperature range from -25°C to 105°C (Including self - temperature rise)

Typical L vs Frequency



Typical Q vs Frequency

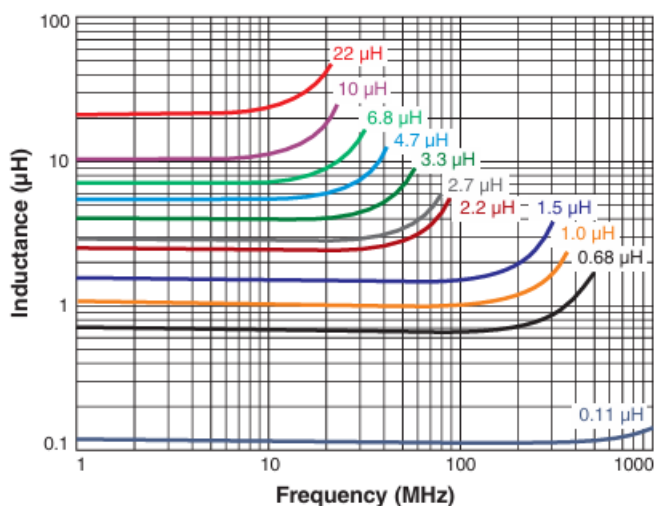


■ ELECTRICAL CHARACTERISTICS

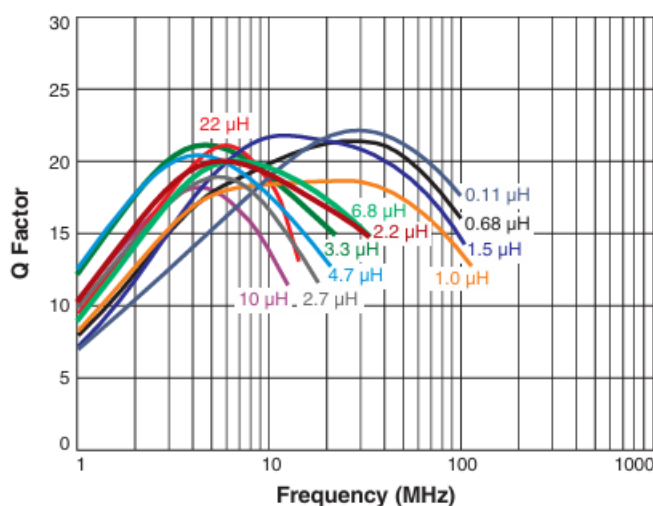
Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	Q Typ.	SRF (MHz) Min	Rdc (Ω) Max	Idc (mA)
SLS0805-78N□-N	0.078	7.9	10 / 5	19	1440	0.06	2000
SLS0805-R11□-N	0.11	7.9	10 / 5	19	1200	0.07	2000
SLS0805-R47□-N	0.47	7.9	10 / 5	19	480	0.40	800
SLS0805-R56□-N	0.56	7.9	10 / 5	19	480	0.40	800
SLS0805-R68□-N	0.68	7.9	10 / 5	20	480	0.40	800
SLS0805-1R0□-N	1.0	7.9	10 / 5	20	400	0.69	700
SLS0805-1R5□-N	1.5	7.9	10 / 5	20	330	0.83	700
SLS0805-1R8□-N	1.8	7.9	10 / 5	20	300	1.00	650
SLS0805-2R2□-N	2.2	7.9	10 / 5	20	250	1.10	650
SLS0805-2R7□-N	2.7	7.9	10 / 5	23	200	1.25	650
SLS0805-3R3□-N	3.3	7.9	10 / 5	23	160	1.45	650
SLS0805-3R9□-N	3.9	7.9	10 / 5	23	90	1.50	600
SLS0805-4R7□-N	4.7	7.9	10 / 5	20	70	1.60	530
SLS0805-5R6□-N	5.6	7.9	10 / 5	20	65	1.70	500
SLS0805-6R8□-N	6.8	7.9	10 / 5	20	45	1.95	470
SLS0805-8R2□-N	8.2	2.5	10 / 5	16	45	2.10	450
SLS0805-10□-N	10	2.5	10 / 5	16	40	2.40	400
SLS0805-12□-N	12	2.5	10 / 5	16	38	3.20	360
SLS0805-15□-N	15	2.5	10 / 5	16	35	3.55	350
SLS0805-18□-N	18	2.5	10 / 5	16	25	4.90	300
SLS0805-22□-N	22	2.5	10 / 5	16	20	5.45	270
SLS0805-27□-N	27	2.5	10 / 5	16	19	7.80	240
SLS0805-47□-N	47	2.5	10 / 5	16	15	14.50	180

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- Tolerance : J = $\pm 5\%$, K = $\pm 10\%$
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- SRF : Agilent E4991A
- Rdc : CH502BC/ HP4338B
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Typical L vs Frequency



Typical Q vs Frequency

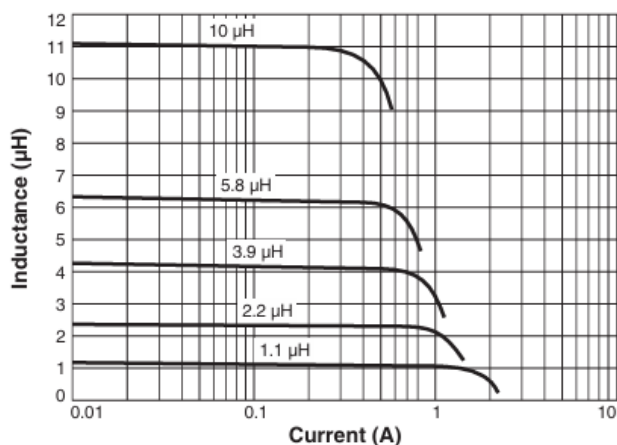


■ ELECTRICAL CHARACTERISTICS

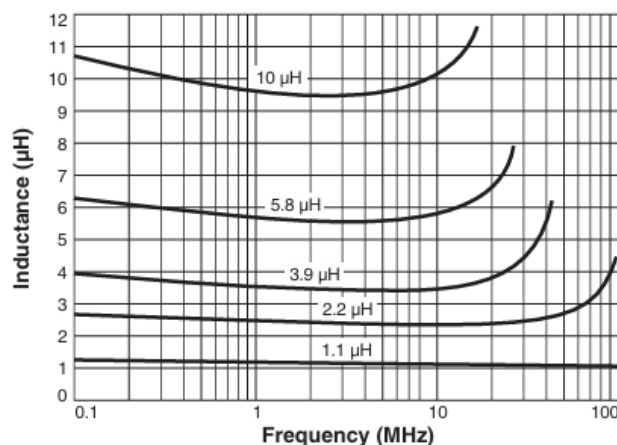
Part Number	Inductance (μ H)	Test Frequency (MHz)	Tolerance ($\pm$ %)	Q Typ 25MHz	SRF (MHz) Min	Rdc (Ω) Max	Idc (mA)
SLS1008-1R2□-N	1.2	7.9	10 / 5	12	350	0.50	1200
SLS1008-1R5□-N	1.5	7.9	10 / 5	12	300	0.65	1200
SLS1008-1R8□-N	1.8	7.9	10 / 5	12	280	0.75	1050
SLS1008-2R2□-N	2.2	7.9	10 / 5	12	250	0.90	950
SLS1008-2R7□-N	2.7	7.9	10 / 5	12	200	1.00	950
SLS1008-3R3□-N	3.3	7.9	10 / 5	12	200	1.15	900
SLS1008-3R9□-N	3.9	7.9	10 / 5	12	170	1.25	850
SLS1008-4R7□-N	4.7	7.9	10 / 5	12	130	1.35	700
SLS1008-5R6□-N	5.6	7.9	10 / 5	12	110	1.45	700
SLS1008-6R8□-N	6.8	7.9	10 / 5	12	105	1.60	600
SLS1008-8R2□-N	8.2	7.9	10 / 5	12	90	1.80	550
SLS1008-100□-N	10.0	7.9	10 / 5	12	85	2.40	500

- When ordering, please specify tolerance and packaging codes.
- Tolerance : J = $\pm 5\%$, K = $\pm 10\%$
- L / Q: Agilent/HP4291A+ Agilent/HP16197A
- SRF: Agilent/HP4291A
- Rdc: CH502BC/HP4338B
- Idc for Inductance drop 10% from its value without current
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Typical L vs Current



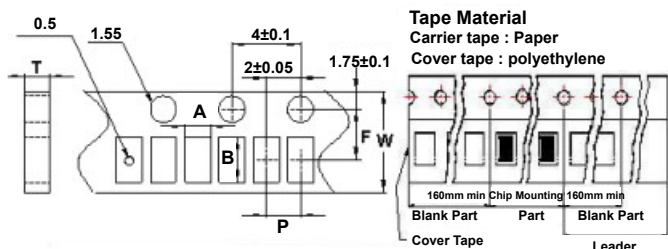
Typical L vs Frequency



■ PACKAGING SPECIFICATIONS

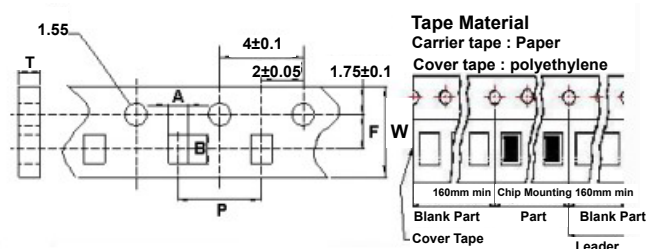
Tape Dimensions

Figure 1

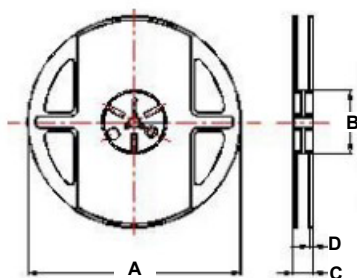


Tape Dimensions

Figure 2



Reel Dimensions



Dimensions in mm

TYPE	Fig.	Tape Dimensions							Reel Dimensions				Quantity
		A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
SLS0603	1	1.30	2.00	0.97	8	4	3.5	-	178	60	12	1.5	4000
SLS0805	2	1.60	2.42	0.22	8	4	3.5	1.45	178	60	12	1.5	2000
SLS1008	2	2.61	2.93	0.26	8	4	3.5	2.25	178	60	12	1.5	2000