

MULTILAYER CHIP INDUCTORS

Nano-henry type for cellular and cordless phone

MLR series

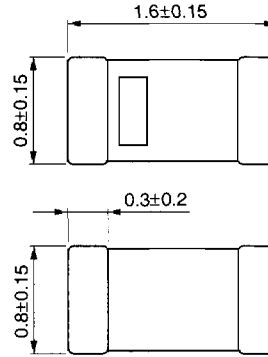
FEATURES

- High self-resonant frequency.
- Multilayer monolithic construction yields high reliability.

APPLICATIONS

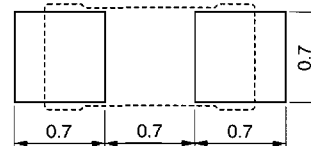
For high frequency applications including cellular phones, pagers and computer communications.

SHAPES AND DIMENSIONS



Weight: 4mg

RECOMMENDED PC BOARD PATTERNS



Dimensions in mm

ELECTRICAL CHARACTERISTICS

Inductance (nH)	Inductance tolerance	Q min. 100MHz	Q typ. 100MHz				Self-resonant frequency (MHz)		DC resistance (Ω)		Rated current (mA) max.	Part No.
				300MHz	500MHz	1000MHz	min.	typ.	max.	typ.		
2.2	±0.3nH	8	20	37	46	78	3000	>10GHz	0.2	0.03	500	MLR1608M2N2S
2.7	±0.3nH	8	14	28	37	56	3000	>10GHz	0.2	0.06	500	MLR1608M2N7S
3.3	±0.3nH	8	12	25	32	46	3000	4500	0.2	0.07	500	MLR1608M3N3S
3.9	±0.3nH	8	12	21	26	36	3000	4500	0.2	0.09	500	MLR1608M3N9S
4.7	±0.3nH	8	12	21	26	36	3000	4400	0.2	0.12	500	MLR1608M4N7S
5.6	±0.5nH	8	12	20	25	36	2500	3200	0.3	0.13	500	MLR1608M5N6D
6.8	±0.5nH	8	12	20	25	35	2500	3100	0.3	0.15	500	MLR1608M6N8D
8.2	±0.5nH	8	12	20	24	35	2500	3000	0.3	0.17	500	MLR1608M8N2D
10	±10, ±5%	8	12	19	24	28	2200	2700	0.5	0.23	300	MLR1608M10N□*
12	±10, ±5%	8	12	19	24	28	2000	2600	0.5	0.27	300	MLR1608M12N□
15	±10, ±5%	8	12	17	22	24	1800	2300	0.6	0.3	300	MLR1608M15N□
18	±10, ±5%	8	12	17	20	23	1700	2300	0.6	0.33	300	MLR1608M18N□
22	±10, ±5%	8	12	19	22	21	1500	2000	0.6	0.39	300	MLR1608M22N□
27	±10, ±5%	8	12	19	23	20	1300	1700	0.8	0.4	300	MLR1608M27N□
33	±10, ±5%	8	12	22	24	14	1100	1500	0.8	0.49	300	MLR1608M33N□
39	±10, ±5%	8	12	23	26	13	1000	1350	0.8	0.54	300	MLR1608M39N□
47	±10, ±5%	8	12	21	20	—	800	1000	1	0.58	200	MLR1608M47N□
56	±10, ±5%	8	12	17	15	—	800	950	1	0.6	200	MLR1608M56N□
68	±10, ±5%	8	12	16	13	—	600	850	1	0.65	200	MLR1608M68N□
82	±10, ±5%	8	12	15	11	—	500	700	1	0.7	200	MLR1608M82N□
100	±10, ±5%	8	12	15	10	—	500	650	1	0.75	200	MLR1608MR10□

*□: Nominal resistance tolerance J: ±5%, K: ±10%

- Test equipment
Inductance Q: HP4291A+16192A SRF: HP8720C Rdc: YOKOGAWA TYPE7561
- Rated current
Value obtained when current flows and temperature has risen to 20°C.



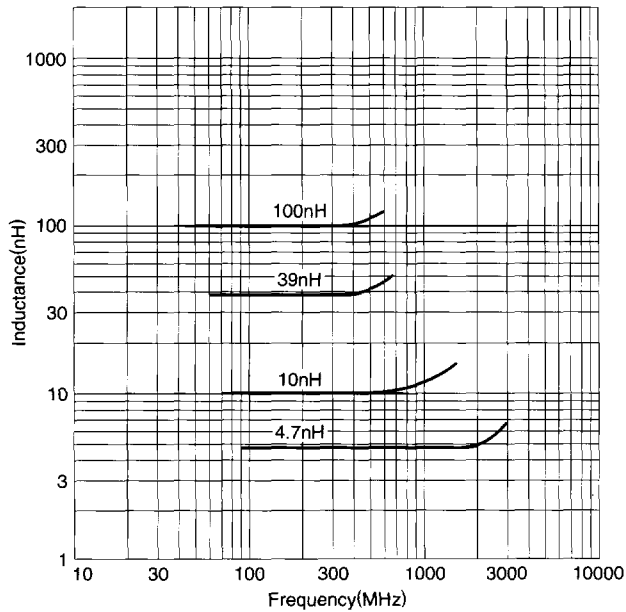
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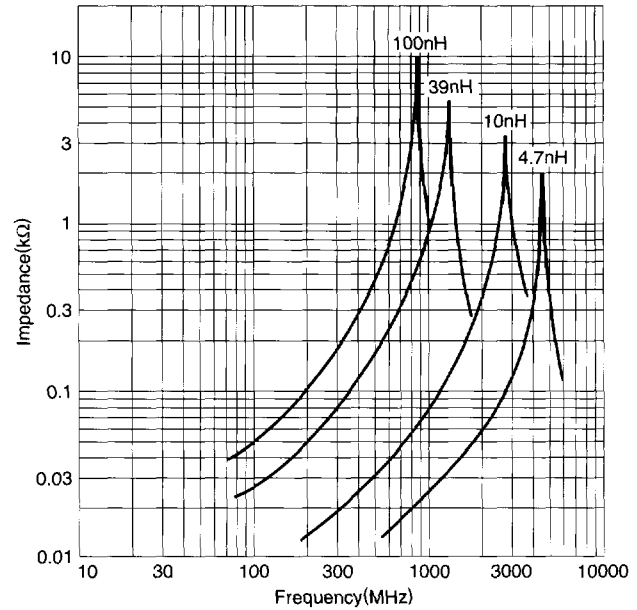
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TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. FREQUENCY CHARACTERISTICS



IMPEDANCE vs. FREQUENCY CHARACTERISTICS



Specifications which provide more details for the proper and safe use of the described product are available upon request.

All specifications are subject to change without notice.