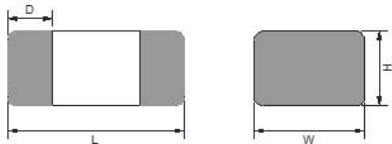


Product outline

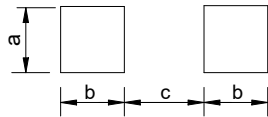
- Ferrite material multilayer chip inductors,minature size,suitable for SMT process.
- No cross coupling due to magnetic shielded structures.
- For signal line use.



Dimensions(mm)



Recommended Patterns



Type	L	W	H	D	a	b	c	Packaging (pcs/reel)
1608	1.6±0.2	0.8±0.2	0.8±0.2	0.3±0.2	0.6~1.5	0.2~1.0	0.2~1.0	4000
2012	2.0±0.2	1.2±0.2	0.9±0.2	0.5±0.3	0.9~1.6	0.8~1.2	0.8~1.2	4000
3216	3.2±0.2	1.6±0.2	0.9±0.2	0.5±0.3	1.8±0.2	0.8±0.2	2.0±0.2	4000

Product Identification

ML 2012 S 1R0 M G
① ② ③ ④ ⑤ ⑥

- ① Multilayer Inductor
- ② Dimensions: 2012=2.0x1.2mm
- ③ Internal control code
- ④ Inductance Value: R47=0.47uH,4R7=4.7uH,100=10uH
- ⑤ Tolerance: K=±10%, M=±20%
- ⑥ Charecteristic level

ML1608S Electrical Characteristics

Part Number	Inductance uH	Q value Min.	Test Conditions	DCR max. (Ω) Max.	Rated Current (mA)max.	SRF MHz Min.
ML1608S47NKG	0.047	15	50MHz/0.05V	0.20	50	260
ML1608S56NKG	0.056	15	50MHz/0.05V	0.20	50	260
ML1608S68NKG	0.068	15	50MHz/0.05V	0.20	50	250
ML1608S82NKG	0.082	15	50MHz/0.05V	0.20	50	245
ML1608SR10KG	0.10	20	25MHz/0.05V	0.25	50	240
ML1608SR12KG	0.12	20	25MHz/0.05V	0.30	50	205
ML1608SR15KG	0.15	20	25MHz/0.05V	0.30	50	180
ML1608SR18KG	0.18	20	25MHz/0.05V	0.30	50	165
ML1608SR22KG	0.22	20	25MHz/0.05V	0.40	50	150
ML1608SR27KG	0.27	20	25MHz/0.05V	0.45	50	136
ML1608SR33KG	0.33	20	25MHz/0.05V	0.50	50	125
ML1608SR39KG	0.39	20	25MHz/0.05V	0.60	50	110
ML1608SR47KG	0.47	20	25MHz/0.05V	0.70	50	105
ML1608SR56KG	0.56	20	25MHz/0.05V	0.70	50	95
ML1608SR68KG	0.68	20	25MHz/0.05V	0.90	50	90
ML1608SR82KG	0.82	20	25MHz/0.05V	1.00	50	85
ML1608S1R0KG	1.0	25	10MHz/0.05V	0.50	25	75
ML1608S1R2KG	1.2	25	10MHz/0.05V	0.55	25	65
ML1608S1R5KG	1.5	25	10MHz/0.05V	0.70	25	60
ML1608S1R8KG	1.8	25	10MHz/0.05V	0.75	25	55
ML1608S2R2KG	2.2	25	10MHz/0.05V	0.80	25	50
ML1608S2R7KG	2.7	25	10MHz/0.05V	0.90	15	45
ML1608S3R3KG	3.3	25	10MHz/0.05V	1.00	15	40
ML1608S3R9KG	3.9	25	10MHz/0.05V	1.30	15	35
ML1608S4R7KG	4.7	25	10MHz/0.05V	1.50	15	33
ML1608S5R6KG	5.6	12	4MHz/0.05V	1.55	5	22
ML1608S6R8KG	6.8	12	4MHz/0.05V	1.55	5	20
ML1608S8R2KG	8.2	12	4MHz/0.05V	1.65	5	18
ML1608S100KG	10	20	2MHz/0.05V	1.75	3	17
ML1608S120KG	12	20	2MHz/0.05V	1.85	3	15
ML1608S150MG	15	20	1MHz/0.05V	2.50	1	14
ML1608S180MG	18	20	1MHz/0.05V	2.70	1	13
ML1608S220MG	22	20	1MHz/0.05V	3.00	1	12

• Test equipment

Inductance : HP4291A+16193A, or equivalent

Tolerance:K=± 10% M=± 20%

SRF: HP8720C, or equivalent

Rdc: YOKOGAWA TYPE7561, or equivalent

ML2012S Electrical Characteristics

Part Number	Inductance uH	Q value Min.	Test Conditions	DCR max. (Ω) Max.	Rated Current (mA)max.	SRF MHz Min.
ML2012S47NKG	0.047	25	50MHz/0.05V	0.15	300	320
ML2012S56NKG	0.056	25	50MHz/0.05V	0.15	300	320
ML2012S68NKG	0.068	25	50MHz/0.05V	0.20	300	280
ML2012S82NKG	0.082	25	50MHz/0.05V	0.20	300	280
ML2012SR10KG	0.10	20	25MHz/0.05V	0.20	250	235
ML2012SR12KG	0.12	20	25MHz/0.05V	0.25	250	220
ML2012SR15KG	0.15	20	25MHz/0.05V	0.25	250	200
ML2012SR18KG	0.18	20	25MHz/0.05V	0.30	250	185
ML2012SR22KG	0.22	20	25MHz/0.05V	0.30	250	170
ML2012SR27KG	0.27	20	25MHz/0.05V	0.40	250	150
ML2012SR33KG	0.33	20	25MHz/0.05V	0.40	250	145
ML2012SR39KG	0.39	25	25MHz/0.05V	0.50	200	135
ML2012SR47KG	0.47	25	25MHz/0.05V	0.50	200	125
ML2012SR56KG	0.56	25	25MHz/0.05V	0.60	150	115
ML2012SR68KG	0.68	25	25MHz/0.05V	0.65	150	105
ML2012SR82KG	0.82	25	25MHz/0.05V	0.70	150	100
ML2012S1R0KG	1.0	35	10MHz/0.05V	0.40	50	75
ML2012S1R2KG	1.2	35	10MHz/0.05V	0.40	50	65
ML2012S1R5KG	1.5	35	10MHz/0.05V	0.40	50	60
ML2012S1R8KG	1.8	35	10MHz/0.05V	0.40	50	55
ML2012S2R2KG	2.2	35	10MHz/0.05V	0.60	50	50
ML2012S2R7KG	2.7	35	10MHz/0.05V	0.60	50	45
ML2012S3R3KG	3.3	35	10MHz/0.05V	0.60	50	41
ML2012S3R9KG	3.9	35	10MHz/0.05V	0.80	50	38
ML2012S4R7KG	4.7	35	10MHz/0.05V	0.90	30	35
ML2012S5R6KG	5.6	30	4MHz/0.05V	1.00	15	32
ML2012S6R8KG	6.8	30	4MHz/0.05V	1.05	15	29
ML2012S8R2KG	8.2	30	4MHz/0.05V	1.05	15	26
ML2012S100KG	10	30	2MHz/0.05V	1.15	15	24
ML2012S120KG	12	30	2MHz/0.05V	1.15	15	22
ML2012S150KG	15	25	1MHz/0.05V	1.15	5	19
ML2012S180KG	18	25	1MHz/0.05V	1.20	5	18
ML2012S220KG	22	25	1MHz/0.05V	1.20	5	16
ML2012S270KG	27	25	1MHz/0.05V	1.50	5	16
ML2012S330MG	33	25	1MHz/0.05V	1.50	5	16
ML2012S390MG	39	25	1MHz/0.05V	1.50	5	16
ML2012S470MG	47	25	1MHz/0.05V	1.70	5	15

Test equipment

Inductance : HP4291A+16193A, or equivalent

Tolerance:K=± 10% M=± 20%

SRF: HP8720C, or equivalent

Rdc: YOKOGAWA TYPE7561, or equivalent

All specifications are subject to change without notice.

ML3216S Electrical Characteristics

Part Number	Inductance uH	Q value Min.	Test Conditions	DCR max. (Ω) Max.	Rated Current (mA)max.	SRF MHz Min.
ML3216S47NKG	0.047	30	50MHz/0.05V	0.15	300	320
ML3216S56NKG	0.056	30	50MHz/0.05V	0.20	300	320
ML3216S68NKG	0.068	30	50MHz/0.05V	0.25	300	280
ML3216S82NKG	0.082	30	50MHz/0.05V	0.25	300	280
ML3216SR10KG	0.10	25	25MHz/0.05V	0.25	250	235
ML3216SR12KG	0.12	25	25MHz/0.05V	0.25	250	220
ML3216SR15KG	0.15	25	25MHz/0.05V	0.25	250	200
ML3216SR18KG	0.18	25	25MHz/0.05V	0.30	250	185
ML3216SR22KG	0.22	25	25MHz/0.05V	0.30	250	170
ML3216SR27KG	0.27	25	25MHz/0.05V	0.30	250	150
ML3216SR33KG	0.33	25	25MHz/0.05V	0.30	250	145
ML3216SR39KG	0.39	30	25MHz/0.05V	0.50	200	135
ML3216SR47KG	0.47	30	25MHz/0.05V	0.50	200	125
ML3216SR56KG	0.56	30	25MHz/0.05V	0.50	150	115
ML3216SR68KG	0.68	30	25MHz/0.05V	0.50	150	105
ML3216SR82KG	0.82	30	25MHz/0.05V	0.60	150	100
ML3216S1R0KG	1.0	35	10MHz/0.05V	0.30	100	75
ML3216S1R2KG	1.2	35	10MHz/0.05V	0.40	100	65
ML3216S1R5KG	1.5	35	10MHz/0.05V	0.40	50	60
ML3216S1R8KG	1.8	35	10MHz/0.05V	0.40	50	55
ML3216S2R2KG	2.2	35	10MHz/0.05V	0.50	50	50
ML3216S2R7KG	2.7	35	10MHz/0.05V	0.50	50	45
ML3216S3R3KG	3.3	35	10MHz/0.05V	0.50	50	41
ML3216S3R9KG	3.9	35	10MHz/0.05V	0.60	50	38
ML3216S4R7KG	4.7	35	10MHz/0.05V	0.65	25	35
ML3216S5R6KG	5.6	35	4MHz/0.05V	0.80	25	32
ML3216S6R8KG	6.8	35	4MHz/0.05V	0.80	25	29
ML3216S8R2KG	8.2	35	4MHz/0.05V	0.80	25	26
ML3216S100KG	10	35	2MHz/0.05V	0.80	25	24
ML3216S120KG	12	35	2MHz/0.05V	0.90	15	22
ML3216S150KG	15	30	1MHz/0.05V	1.00	5	19
ML3216S180KG	18	30	1MHz/0.05V	1.00	5	18
ML3216S220KG	22	30	1MHz/0.05V	1.20	5	16
ML3216S270KG	27	30	1MHz/0.05V	1.20	5	14
ML3216S330KG	33	30	1MHz/0.05V	1.30	5	13
ML3216S390KG	39	30	1MHz/0.05V	1.30	5	13
ML3216S470KG	47	30	1MHz/0.05V	1.60	5	12
ML3216S560MG	56	30	1MHz/0.05V	1.80	5	12
ML3216S680MG	68	30	1MHz/0.05V	2.00	5	11
ML3216S820MG	82	30	1MHz/0.05V	2.40	5	11
ML3216S101MG	100	30	1MHz/0.05V	3.00	5	8

Test equipment

Inductance : HP4291A+16193A, or equivalent

SRF: HP8720C, or equivalent

Tolerance:K=± 10% M=± 20%

Rdc: YOKOGAWA TYPE7561, or equivalent

All specifications are subject to change without notice.