

SPECIFICATIONS

Customer :

Customer P/N: **MLW -RF Series**

Drawing No :

Quantity : **0** Pcs. Date : **2019/08/02**Meled P/N : **MLW -RF Series/参照**

SPECIFICATION ACCEPTED BY:	
COMPONENT ENGINEER	
ELECTRICAL ENGINEER	
MECHANICAL ENGINEER	
APPROVED	
REJECTED	

For Customer approval OnlyQualification Status: ☐ Full ☐ Restricted ☐ Rejected

Approved By	Verified By	Re-checked By	Checked By

Comments:

Meled Electronics Co., Ltd.

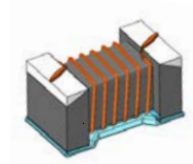
www.meledinc.com

Version change history

Rev.	Effective Date	Changed Contents	Change Reasons	Approved By
01	/	New release	/	/

1. Features

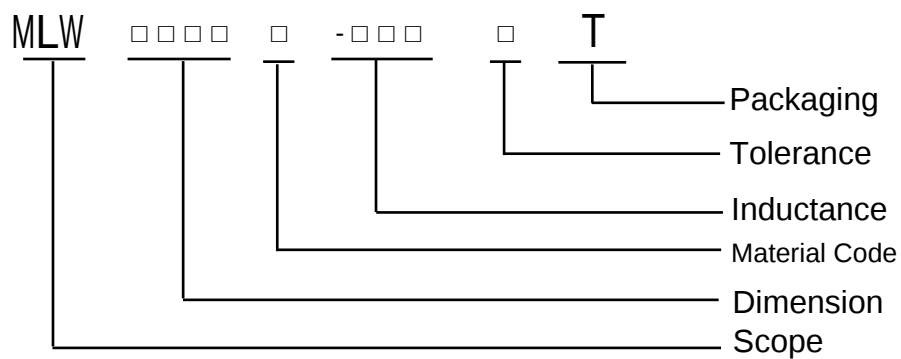
- Small chip suitable for surface mounting
- Large inductance with ferrite material



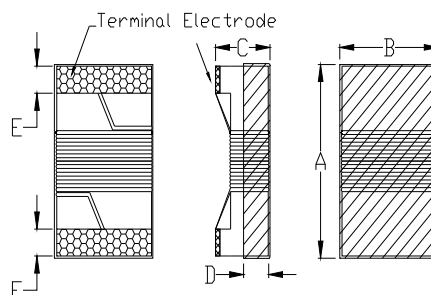
2. APPLICATIONS

- Mobile phones, video cameras and other electronic devices
- Bluetooth modules and TWS earphones

3 PRODUCT IDENTIFICATION



4. Shape and Dimensions



Unit: mm

Series	A	B	C	D Typ.	E Typ.
MLW1608RF	1.80 Max	1.25 Max	1.20 Max	1.02	0.30
MLW2012RF	2.29 Max	1.73 Max	1.52 Max	1.28	0.48

Appendix A: Electrical Characteristics

I. MLW1608RF TYPE INDUCTORS ELECTRICAL CHARACTERISTICS&TEST CONDITIONS

Part Number	Inductance	Tolerance	L Test Freq.	DC Resistance	Typ. Rated Current	Typ. Self-resonant Frequency
Units	μH	-	MHz	Ω	mA	MHz
Symbol	L	-	Freq.	DCR	I _r	S.R.F
MLW1608RF-1R0□T	1.0	K,M	7.9	0.32±30%	860	390
MLW1608RF-1R5□T	1.5	K,M	7.9	0.40±30%	720	160
MLW1608RF-1R8□T	1.8	K,M	7.9	0.43±30%	640	121
MLW1608RF-2R2□T	2.2	K,M	7.9	0.56±30%	600	103
MLW1608RF-2R7□T	2.7	K,M	7.9	0.62±30%	540	72
MLW1608RF-3R3□T	3.3	K,M	7.9	0.70±30%	500	66
MLW1608RF-3R9□T	3.9	K,M	7.9	0.83±30%	460	61
MLW1608RF-4R7□T	4.7	K,M	7.9	0.97±30%	420	51
MLW1608RF-5R6□T	5.6	K,M	7.9	1.10±30%	380	47
MLW1608RF-6R8□T	6.8	K,M	7.9	1.50±30%	340	43
MLW1608RF-8R2□T	8.2	K,M	7.9	1.68±30%	300	40
MLW1608RF-100□T	10	K,M	2.5	1.85±30%	280	36
MLW1608RF-120□T	12	K,M	2.5	2.28±30%	260	32
MLW1608RF-150□T	15	K,M	2.5	2.60±30%	240	29
MLW1608RF-180□T	18	K,M	2.5	2.90±30%	220	28
MLW1608RF-220□T	22	K,M	2.5	3.61±30%	200	24
MLW1608RF-270□T	27	K,M	2.5	5.20±30%	140	20
MLW1608RF-330□T	33	K,M	2.5	6.60±30%	120	15
MLW1608RF-470□T	47	K,M	2.5	9.65±30%	100	14

II. MLW2012RF TYPE INDUCTORSELECTRICAL CHARACTERISTICS&TEST CONDITIONS

Part Number	Inductance	Tolerance	L Test Freq.	DC Resistance	Typ. Rated Current	Typ. Self-resonant Frequency
Units	μH	-	MHz	Ω	mA	MHz
Symbol	L	-	Freq.	DCR	I _r	S.R.F
MLW2012RF-R47□T	0.47	K,M	7.9	0.12±30%	1500	850
MLW2012RF-R68□T	0.68	K,M	7.9	0.15±30%	1300	765
MLW2012RF-1R0□T	1.0	K,M	7.9	0.13±30%	1300	208
MLW2012RF-1R2□T	1.2	K,M	7.9	0.16±30%	1270	159
MLW2012RF-1R5□T	1.5	K,M	7.9	0.17±30%	1260	159
MLW2012RF-1R8□T	1.8	K,M	7.9	0.20±30%	1080	112
MLW2012RF-2R2□T	2.2	K,M	7.9	0.22±30%	1040	87
MLW2012RF-2R7□T	2.7	K,M	7.9	0.25±30%	1040	72
MLW2012RF-3R3□T	3.3	K,M	7.9	0.28±30%	1020	70
MLW2012RF-3R9□T	3.9	K,M	7.9	0.38±30%	960	61
MLW2012RF-4R7□T	4.7	K,M	7.9	0.43±30%	840	51
MLW2012RF-5R6□T	5.6	K,M	7.9	0.50±30%	800	47
MLW2012RF-6R8□T	6.8	K,M	7.9	0.68±30%	700	46
MLW2012RF-8R2□T	8.2	K,M	7.9	0.73±30%	680	33

II. MLW2012RF TYPE INDUCTOR ELECTRICAL CHARACTERISTICS & TEST CONDITIONS

Part Number	Inductance	Tolerance	L Test Freq.	DC Resistance	Typ. Rated Current	Typ. Self-resonant Frequency
Units	μH	-	MHz	Ω	mA	MHz
Symbol	L	-	Freq.	DCR	I _r	S.R.F
MLW2012RF-100 □T	10	K,M	2.5	0.85±30%	560	31
MLW2012RF-120 □T	12	K,M	2.5	0.90±30%	460	30
MLW2012RF-150 □T	15	K,M	2.5	1.40±30%	380	28
MLW2012RF-180 □T	18	K,M	2.5	1.55±30%	360	27
MLW2012RF-220 □T	22	K,M	2.5	1.76±29%	340	20
MLW2012RF-270 □T	27	K,M	2.5	2.00±30%	300	17
MLW2012RF-330 □T	33	K,M	2.5	2.35±30%	300	17
MLW2012RF-470 □T	47	K,M	2.5	3.40±30%	280	15
MLW2012RF-560 □T	56	K,M	2.5	4.42±30%	240	10
MLW2012RF-680 □T	68	K,M	2.5	4.45±30%	240	10
MLW2012RF-820 □T	82	K,M	2.5	7.50±30%	180	10
MLW2012RF-101 □T	100	K,M	1.0	7.50±30%	180	9

※ □: Please specify the inductance tolerance code (K=±10%, M=±20%).

Products with other electrical characteristic can be provided upon customer's request. Please contact your local sales.