MetalLions

Wire Wound Chip Ferrite Inductors MLW1608RD Series

FEATURES

- Small chip suitable for surface mounting
- Large inductance with ferrite material
- Operate temperature range .... －40℃～＋85℃(Including self temp. rise)
- RoHS compliant

APPLICATIONS

- Mobile phones and other electronic devices
- Bluetooth modules and TWS earphones

Explanation of Part Number

MLW 1608 RD- 1R0 M T

1 2 3 4 5 6

- 1:Product Series:Wire Wound Chip Ceramic Inductors
- 2:Dimensions:
- 3: Material Code : RD Type
- 4:Nominal Inductance:1R0==>1.0uH
- 5.Inductance Tolerance:M±20%
- 6:Packing :Tape & Reel

Dimensions: [mm]

L(MAX)	W(MAX)	T(MAX)	E(Typ.)	F(Typ.)	D(Typ.)
1.80	1.25	1.10	0.64	1.02	0.64

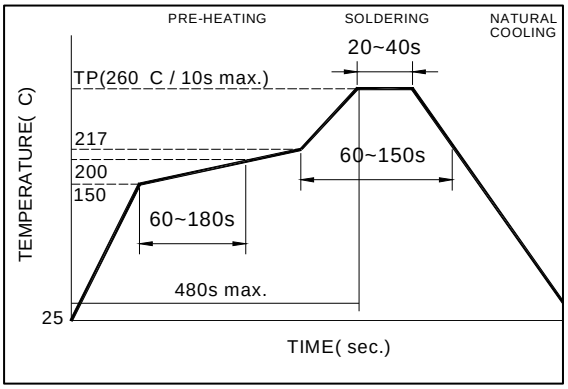
Electrical Characteristics List

MLW1608RD Series

NO.	Part Number	L (μH)	Q (Typ)	SRF (MHz)Typ	Rdc±30% (Ω)	Irms (mA)Typ	Isat (mA)Typ
1	MLW1608RD-1R0MT	1@1MHZ	10@1MHZ	350.00	0.14	900.00	800.00
2	MLW1608RD-2R2MT	2.2@1MHZ	10@1MHZ	90.00	0.30	600.00	580.00
3	MLW1608RD-4R7MT	4.7@1MHZ	10@1MHZ	57.00	0.46	500.00	450.00
4	MLW1608RD-6R8MT	6.8@1MHZ	9@1MHZ	25.00	0.67	500.00	410.00
5	MLW1608RD-100MT	10@1MHZ	9@1MHZ	25.00	1.00	380.00	270.00
6	MLW1608RD-150MT	15@1MHZ	9@1MHZ	25.00	1.42	350.00	220.00
7	MLW1608RD-220MT	22@1MHZ	8@1MHZ	20.00	2.46	270.00	180.00

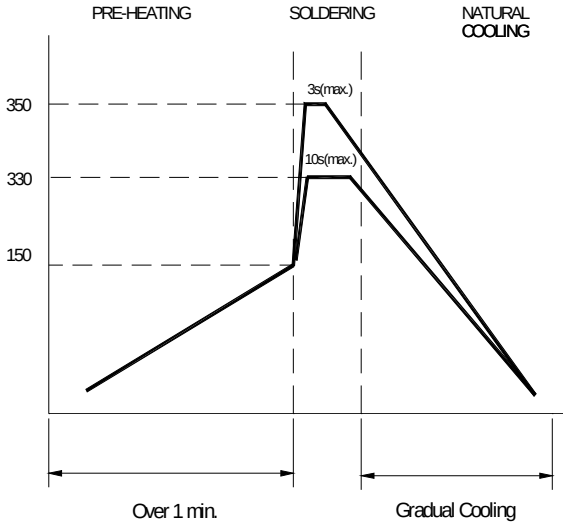
SOLDERING CONDITIONS

Figure 1. Re-flow Soldering (Lead Free)



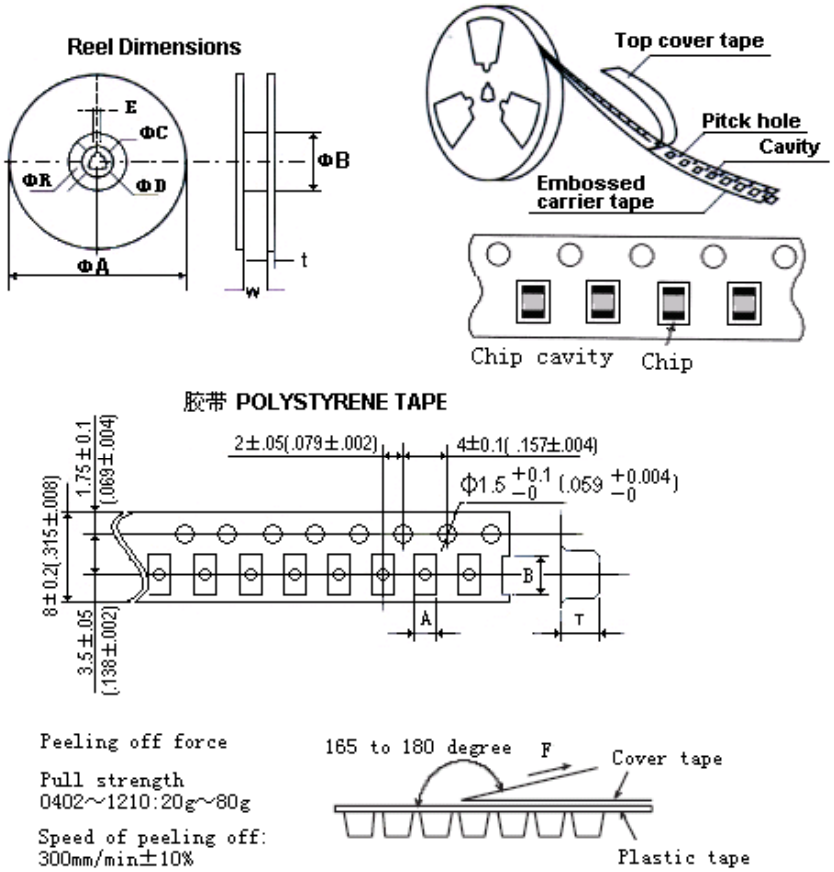
Note:
- Preheat circuit and products to 150 ℃
- 260℃ tip temperature (max)
- Reflow times: no more than 2 times
- Solder paste thickness: the best 0.08mm is ,but max is 0.1mm

Figure 2. Hand Soldering



Note:
- Use a 20 watt soldering iron with tip diameter of 1.0mm
- Limit soldering time to 3 sec.

PACKAGING(unit: mm)



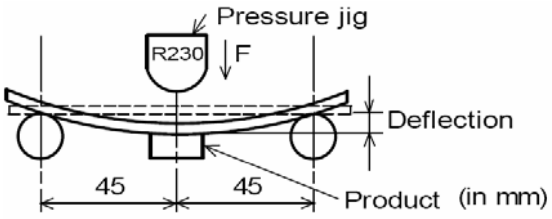
	A Typ	B Typ	T Typ
胶带	1.15	1.83	0.95

ΦA Typ	ΦB Typ	ΦC Typ	ΦD Typ	E Typ	W Typ	t Typ	
178	60	13	21	2	8.4	2	

包装数量(PACKAGING QUANTITY)：4000Pcs/盘

RELIABILITY TEST

TEST ITEM	SPECIFICATION	TEST CONDITION
Rating current	According to product specifications	Current sources:33010D
Inductance	According to product specifications	Test Frequency:0.252~250MHz Test Equipment:HP4291A、HP4286A、HP4287A、HP4284A Test Fixture:16193Aor16334A
Q	According to product specifications	Test Frequency:0.252~1500MHz Test Equipment:HP4291A、HP4286A、HP4287A、Test Fixture:16193Aor16334A
RDC	According to product specifications	Test Equipment:HP4263B
SRF	According to product specifications	Test Equipment:HP4291A Test Fixture:16193A
Solderability	The metalized area must have more then 90%of solder coverage	Soldering Temp:230±5℃ Dipping time:5±1S
Resistance to soldering heat	No evidence of mechanical damage The mealized arer must have more then 75%of solder coverage Inductance change,less than±5% Q change less than±10%	Soldering Temp:260±5℃ Dipping time:10±1S
Thermal Shock	No evidence of mechanical damage, Inductance change less than±5%, Q change less than±10%	A cycle contain:Step1:-40℃，30Min Step 2:85℃，30Min Cycle Times:10

TEST ITEM	SPECIFICATION	TEST CONDITION
High Temperature Storage	No evidence of mechanical damage, Inductance change less than±5%, Q change less than±10%	Test Temperature:125±2℃(Ceramic core)85±2℃(Ferrite core) Test Time:96±2Hours
Low Temperature Storage	No evidence of mechanical damage, Inductance change less than±5%, Q change less than±10%	Test Temperature:-40±2℃ Test Time:96±2Hours
Moisture Resistance	No evidence of mechanical damage, Inductance change less than±5%, Q change less than±10%	Test Temperature:50±2℃ Test Time:100Hours relative humidity:90~95%
Vibration	No evidence of mechanical damage, Inductance change less than±5%, Q change less than±10%	Amplitude:1.5mm X、Y、Z each direction for 1Hour and 45min Frequency range:10~55~10Hz(min)
Component Adhesion	No evidence of mechanical damage No evidence of peel off or broken Keep coutinuity of FSnding	Force:2Kg Test Time:5±1sec
Resistance to bend	No evidence of mechanical damage	Camber:20mm Test Board:Glass-Epoxy board Thickness:8mm 
Life	No evidence of mechanical damage, Inductance change less than±5%, Q change less than±10%	Test Temperature:85±2℃ Test Time:1000Hours FSth rating current

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