

规格确认书

SPECIFICATION

客 户

CUSTOMER:

客 户 料 号

CUSTOMER P/N:

物 料 名 称

绕线片式电感

MODEL NO:

Wire Wound Chip Inductors

料 号

RTFE 系列

P/N:

RTFE series

文 件 编 号

FILE NO:

23-07

日期: 2023-07-06

承办人: 刘俊

DATE: July 06, 2023

ISSUEDER: Liu Jun

客户确认 APPROVED BY

签名:

日期:

SIGN:

DATE:

结论 RESULT:

确认后请回传 PLEASE RETURN BY ONE COPY

●特征

小尺寸，可表面贴装。
铁氧体材料具有大电感量。
单面封装，较普通系列厚度更薄。
工作温度范围-40℃至+85℃

●用途

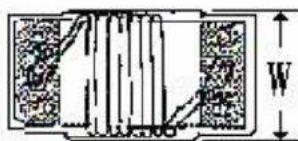
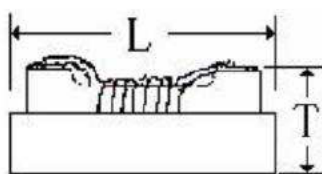
移动电话等电子设备。
蓝牙模块、TWS 耳机。

●品名系统

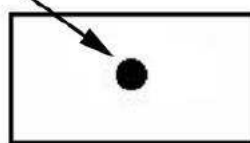
RTFE 1608 FE 4R7 K T
① ② ③ ④ ⑤ ⑥

- ① 产品代号: 小型绕线片式电感。
- ② 尺寸规格: 1608=1.6x0.8(mm)
2012=2.0x1.25(mm)
- ③ 材料代码:FE=铁氧体
- ④ 电感值: 4R7=4.7μH
- ⑤ 电感量公差:M=±20% K=±10% J=±5%
- ⑥ 包装: T=卷带包装。

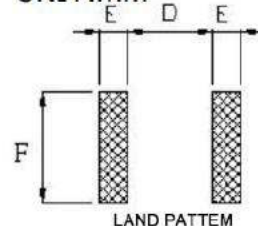
●结构及尺寸



Marking



UNIT:mm



Units:mm

Series	L (MAX)	W (MAX)	T (MAX)	E(Typ.)	F(Typ.)	D(Typ.)
1608	1.8	1.25	1.1	0.64	1.02	0.64
2012	2.4	1.73	1.52	1.02	1.78	0.76

●FEATURES

Small chip suitable for surface mounting.
Large inductance with ferrite material.
Single-sided package, thinner than normal Series.
Operating temperature range -40℃ to +85℃

●Applications

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

●Product Identification

RTFE 1608 FE 4R7 K T
① ② ③ ④ ⑤ ⑥

- ① Product symbol: Mini Wire Wound Chip Inductor
- ② Dimension: 1608=1.6x0.8(mm)
2012=2.0x1.25(mm)
- ③ Material Code:FE=Ferrite
- ④ Inductance: 4R7=4.7μH
- ⑤ Tolerance: M=±20% K=±10% J=±5%
- ⑥ Packing:T=Tape & Reel

●Structure And Dimension

●规格

Specifications

RTFE1608 系列 (TYPE)

型号 Part Number	电感量 Inductance	公差 Tolerance	测试频率 L Test Freq.	自振频率Typ. Self-resonant Frequency	直流电阻DC Resistance	额定电流 Typ.Rated Current
单位 Units	μH	-	MHz	MHz	Ω	mA
符号 Symbol	L	-	Freq.	S.R.F	DCR	Ir
RTFE1608FE1R0□T	1	K,M	7.9	250	0.31±30%	700
RTFE1608FE1R5□T	1.5	K,M	7.9	160	0.40±30%	600
RTFE1608FE1R8□T	1.8	K,M	7.9	121	0.43±30%	580
RTFE1608FE2R2□T	2.2	K,M	7.9	103	0.56±30%	580
RTFE1608FE3R3□T	3.3	K,M	7.9	65	0.68±30%	450
RTFE1608FE4R7□T	4.7	K,M	7.9	51	0.97±30%	420
RTFE1608FE6R8□T	6.8	K,M	7.9	43	1.50±30%	340
RTFE1608FE100□T	10	J,K,M	2.5	36	1.85±30%	280
RTFE1608FE150□T	15	J,K,M	2.5	29	2.60±30%	240
RTFE1608FE220□T	22	J,K,M	2.5	24	3.60±30%	200
RTFE1608FE330□T	33	J,K,M	2.5	15	6.60±30%	120
RTFE1608FE470□T	47	J,K,M	2.5	5	9.23±30%	100

RTFE2012 系列 (TYPE)

型号 Part Number	电感量 Inductance	公差 Tolerance	测试频率 L Test Freq.	自振频率Typ. Self-resonant Frequency	直流电阻DC Resistance	额定电流 Typ.Rated Current
单位 Units	μH	-	MHz	MHz	Ω	mA
符号 Symbol	L	-	Freq.	S.R.F	DCR	Ir
RTFE2012FER68□T	0.68	K,M	7.9	765	0.15±30%	1200
RTFE2012FE1R0□T	1	K,M	7.9	208	0.13±30%	1100
RTFE2012FE1R5□T	1.5	K,M	7.9	130	0.17±30%	880
RTFE2012FE2R2□T	2.2	K,M	7.9	80	0.24±30%	740
RTFE2012FE3R3□T	3.3	K,M	7.9	50	0.28±30%	620
RTFE2012FE4R7□T	4.7	K,M	7.9	51	0.43±30%	520
RTFE2012FE6R8□T	6.8	K,M	7.9	35	0.68±30%	420
RTFE2012FE100□T	10	J,K,M	2.5	25	0.90±30%	300
RTFE2012FE150□T	15	J,K,M	2.5	28	1.40±30%	280
RTFE2012FE180□T	18	J,K,M	2.5	27	1.55±30%	260
RTFE2012FE220□T	22	J,K,M	2.5	20	1.76±30%	240
RTFE2012FE330□T	33	J,K,M	2.5	18	2.00±30%	190
RTFE2012FE470□T	47	J,K,M	1	15	3.40±30%	160
RTFE2012FE101□T	100	J,K,M	1	5	7.50±30%	100

Notes

Tolerance: M=±20% K=±10% J=±5%

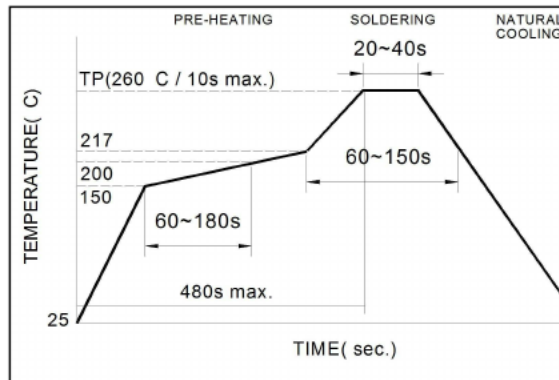
All test data is referenced to 25°C ambient.

Rated current: Isat or Irms, which ever is smaller.

Irms (A): DC current (A) that will cause an approximate ΔT of 40°C. (reference ambient temperature is 25°C)

● SOLDERING CONDITIONS

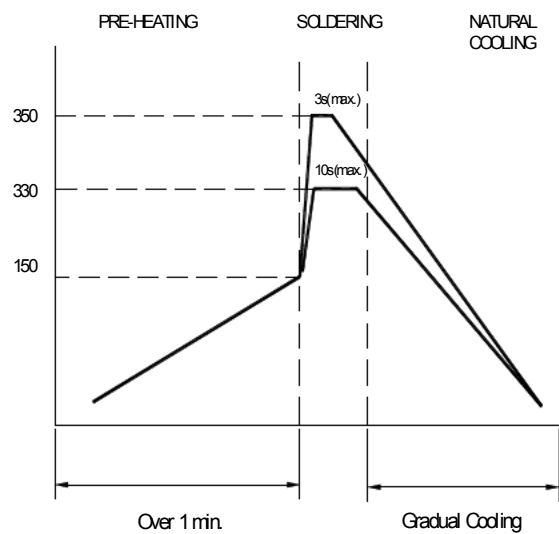
**Figure 1.
Re-flow
Soldering
(Lead Free)**



Note:

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

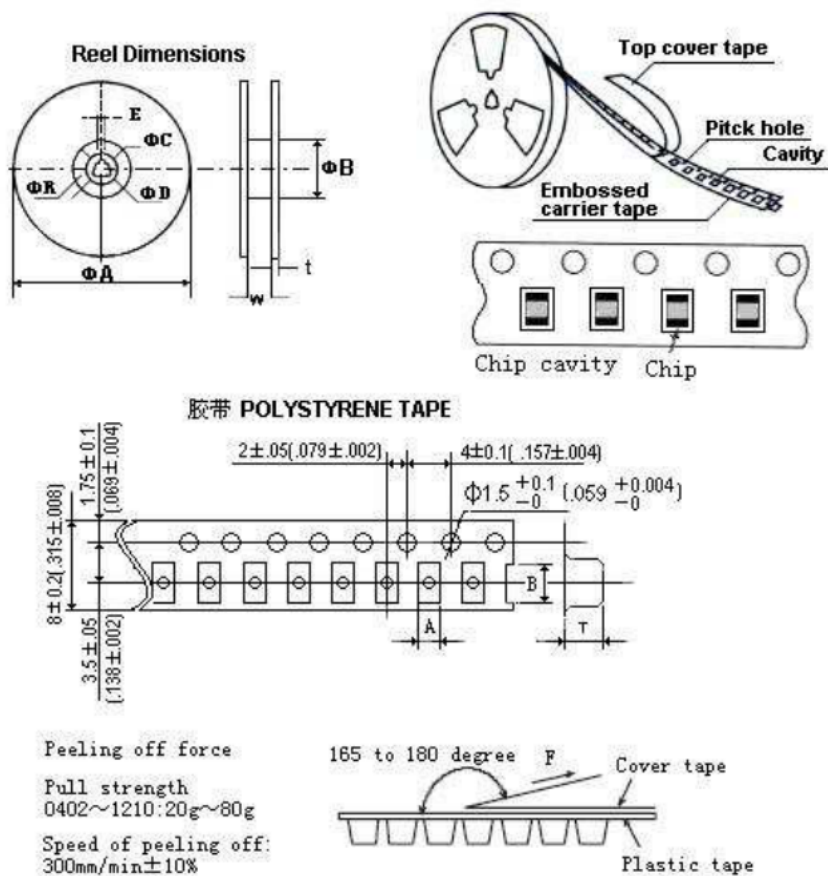
**Figure 2.
Hand
Soldering**



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	Φ A Typ	Φ B Typ	Φ C Typ	Φ D Typ	E Typ	W Typ	t Typ
载带	1.15	1.83	0.95	178	60	13	21	2	8.4	2

包装数量(PACKAGING QUANTITY):4000Pcs/盘