



承認書

SPECIFICATION FOR APPROVAL

CUSTOMER:

DESCRIPTION:

WIRE WOUND CHIP INDUCTOR

PART NO:

MWI0603QD系列

CUST. PART NO:

REV. NO.

A0

DRAWING		
PREPARED	CHECKED	APPROVED
邹声平	卢嘉良	曾凡强
DATE:	2025/5/1	

CUSTOMER APPROVE



东莞市铭易轩电子科技有限公司

DongGuan Ming Yixuan Electronic Technology Co., LTD

地址: 广东省东莞市大朗镇景泰路20号VV大厦

电话: 13640935893, 15970768093

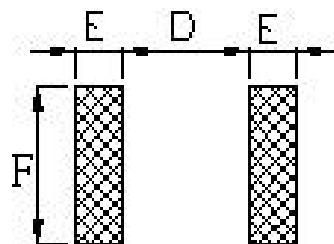
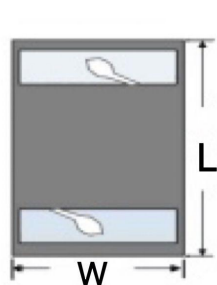
网址: <http://www.dgmingyixuan.com>



SPECIFICATION FOR APPROVAL

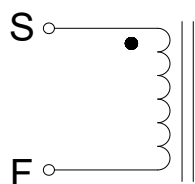
[illegible]

CUSTOMER:		REV. NO.	A0
PART NO:	MWI0603QD系列	PAGE NO:	2/6
CUST. PART NO:		DATE:	2025/5/1

1. SHAPE & DIMENSION (UNIT:mm)


Recommended patterns

L	W	T	E	F	D
1.8 Max.	1.25 Max.	1.2 Max.	0.64 Typ.	1.02 Typ.	0.64 Typ.

2. SCHEMATIC

3. PART NUMBERING SYSTEM

MWI	0603	QD	2R2	M	S	T	-	HF
1	2	3	4	5	6	7		8

- 1 PRODUCT SYMBOL (产品代号)
- 2 DIMENSIONS (规格尺寸)
- 3 MATERIAL (芯片类型)
- 4 INDUCTANCE (电感量)
- 5 TOLERANCE (公差) : M±20%
- 6 TERMINAL (端电极材料) : S-锡端头
- 7 PACKAGING (包装方式) : T-编带盘装; B-散装
- 8 E.P. (环保) : LF—Lead Free HF—Halogen Free FP—Red Phosphor Free

APPROVED	CHECKED	PREPARED
曾凡强	卢嘉良	邹声平

CUSTOMER:		REV. NO.	A0
PART NO:	MWI0603QD系列	PAGE NO:	3/6
CUST. PART NO:		DATE:	2025/5/1

4. ELECTRICAL CHARACTERISTICS

No.	Part Number	L	Freq	Q	SRF	Rdc±30%	Irms	Isat
		(uH)	(MHz.)	(Typ.)	(MHz)Typ.	(Ω)	(mA) Typ.	(mA) Typ.
1	MWI0603QD1R0MST-HF	1	1	10	350	0.21	1100	720
2	MWI0603QD1R5MST-HF	1.5	1	10	300	0.39	650	520
3	MWI0603QD2R2MST-HF	2.2	1	10	250	0.46	680	480
4	MWI0603QD4R7MST-HF	4.7	1	10	100	0.7	450	400
5	MWI0603QD6R8MST-HF	6.8	1	9	50	1.25	360	300
6	MWI0603QD100MST-HF	10	1	9	25	1.5	270	380
7	MWI0603QD150MST-HF	15	1	9	25	2	270	230
8	MWI0603QD220MST-HF	22	1	9	10	3.9	220	160

Test remarks

- (1). All test data is referenced to 25 °C ambient.
- (2). Isat: DC current at which inductance drops approximate 30% from its value without current,
Irms: DC current that causes the temperature rise ($\Delta T \leq 40^{\circ}\text{C}$) from 25°C ambient.

5. GENERAL SPECIFICATION

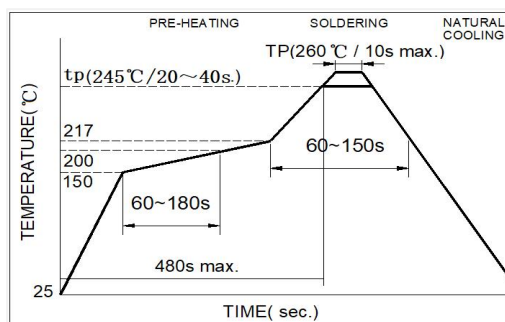
- (1). Operating temp.: -40°C ~ +85°C (Including self-generated heat).
- (2). Storage temp.: -10°C ~ +40°C R.H.:60% Max.
- (3). Moisture sensitivity level (MSL) 1
- (4). Recommended products should be used within 12 months from the date of delivery
- (5). The part temperature (ambient + temp rise) should not exceed 85 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

APPROVED	CHECKED	PREPARED
曾凡强	卢嘉良	邹声平

CUSTOMER:		REV. NO.	A0
PART NO:	MWI0603QD系列	PAGE NO:	4/6
CUST. PART NO:		DATE:	2025/5/1

6. SOLDERING CONDITIONS

Figure 1. Re-flow Soldering (Lead Free)



Note:

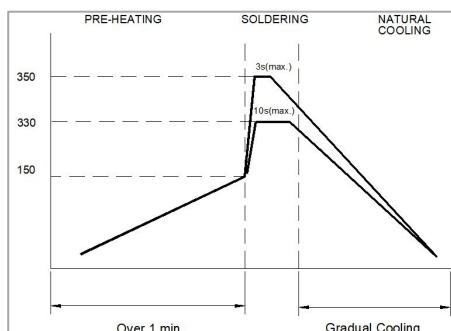
Preheat circuit and products to 150°C

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

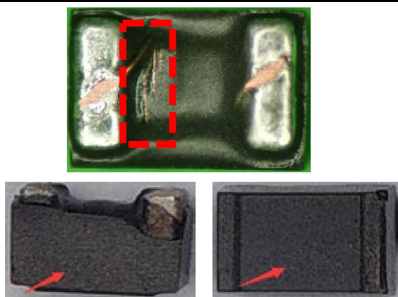
Figure 2. Hand Soldering



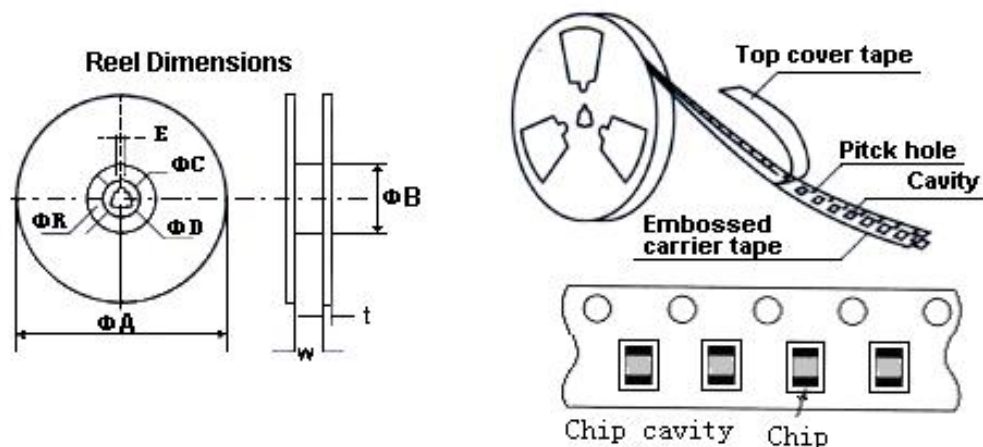
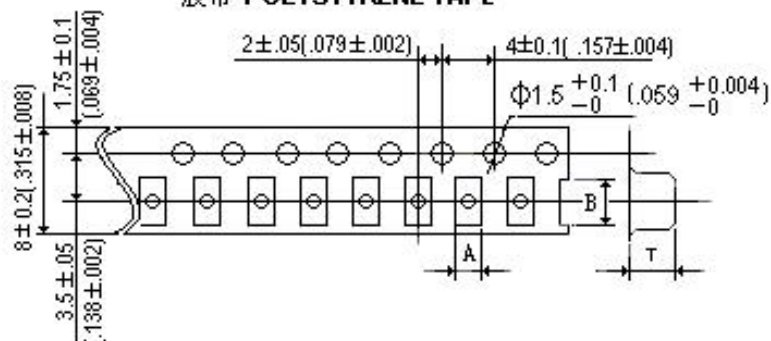
Note:

Use a 20 watt soldering iron with tip diameter of 1.0mm

Limit soldering time to 3 sec.

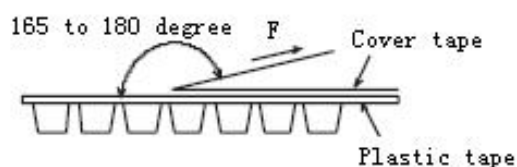
Appearance Defect	Graphic	Judging Standard
Copper wire exposed		Area of copper wire exposed in magnetic shield area less than 0.06 square millimeter is OK.
APPROVED	CHECKED	PREPARED
曾凡强	卢嘉良	邹声平

CUSTOMER:		REV NO:	A0
PART NO:	MWI0603QD系列	PAGE NO:	5/6
CUST. PART NO:		DATE:	2025/5/1

7. PACKAGE SPECIFICATION

胶带 POLYSTYRENE TAPE


Peeling off force

 Pull strength
0402~1210:20g~80g

 Speed of peeling off:
300mm/min $\pm$ 10%


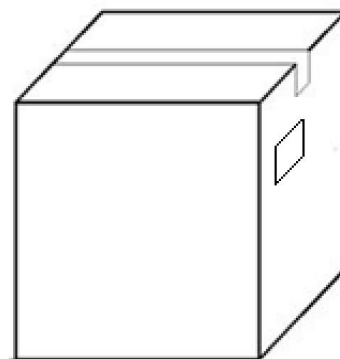
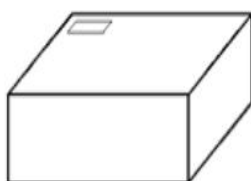
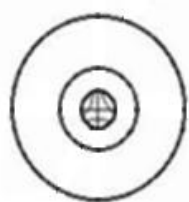
	A	B	T
胶带	1.15Typ.	1.83Typ.	0.95Typ.

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

包装数量(PACKAGING QUANTITY): 4000Pcs/盘

APPROVED	CHECKED	PREPARED
曾凡强	卢嘉良	邹声平

CUSTOMER:		REV NO:	A0
PART NO:	MWI0603QD系列	PAGE NO:	6/6
CUST. PART NO:		DATE:	2025/5/1

8.Package Specifications
Inside Box And Outside Carton


卷轴数量
每卷:4000PCS



内盒包装数量
每盒四盘, 共16000 PCS



外箱包装数量
小箱6盒, 共96000 PCS
中箱8盒, 共128000 PCS
大箱10盒, 共160000 PCS

内盒包装尺寸
20.3*19.3*5.5cm



外箱包装尺寸
小箱, 40.6*23*19.7cm
中箱, 41*22*26cm
大箱, 41*22*33cm

APPROVED	CHECKED	PREPARED
曾凡强	卢嘉良	邹声平