



承認書

SPECIFICATION FOR APPROVAL

CUSTOMER:

DESCRIPTION:

WIRE WOUND CHIP INDUCTOR

PART NO:

MWI0603AQD系列

CUST. PART NO:

REV. NO.

A0

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

CUSTOMER APPROVE

DDY® 德立电子&铭易轩

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

工厂地址: 广东省惠州市博罗县洲际工业园梅园三路

电话: 13640935893 , 15970768093

网址: <http://www.dgmingyixuan.com>



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MODIFY RECORD 变更履历

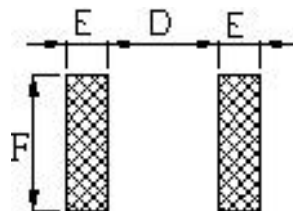
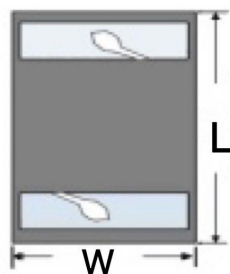
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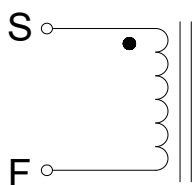
1. SHAPE & DIMENSION (UNIT:mm)



Recommended patterns

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

2. SCHEMATIC



3. PART NUMBERING SYSTEM

MWI	0603	AQD	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) : $M \pm 20\%$
- 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

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4. ELECTRICAL CHARACTERISTICS

No.	Part Number	L	Freq	Q	SRF	Rdc ±30%	Isat	Isat	Irms	Irms
		(uH)	(MHz)	(Typ.)	(MHz)Typ.	(Ω)	(mA) Max.	(mA) Typ.	(mA) Max.	(mA) Typ.
1	MWI0603AQD1R0MST-HF	1	1	18	150	0.19	1500	1800	900	1100
2	MWI0603AQD2R2MST-HF	2.2	1	18	90	0.38	1050	1300	580	630
3	MWI0603AQD4R7MST-HF	4.7	1	18	50	0.73	650	750	400	430
4	MWI0603AQD6R8MST-HF	6.8	1	18	30	0.88	600	700	320	350
5	MWI0603AQD100MST-HF	10	1	18	30	1.4	450	550	280	300

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

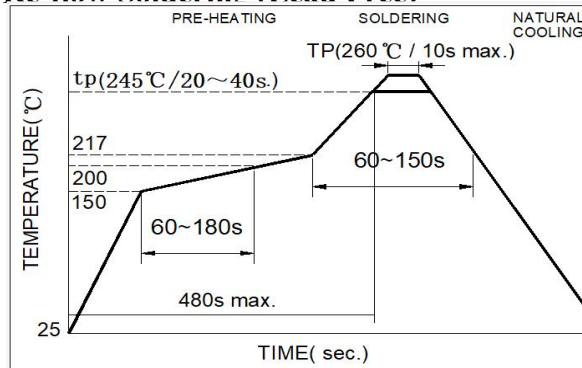
- (1). Operating temp.: -40°C ~ +85°C (Including self-generated heat).
- (2). Storage temp.: -10°C ~ +40°C R.H.:60% Max.
- (3). Moisture sensitivity level (MSL) 1
- (4). Recommended products should be used within 12 months from the date of delivery
- (5). The part temperature (ambient + temp rise) should 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.

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6. SOLDERING CONDITIONS

Figure 1. Re-flow Soldering (Lead Free)



Note:

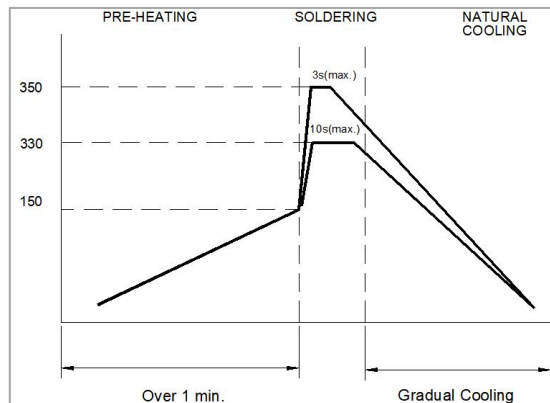
Preheat circuit and products to 150°C

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:

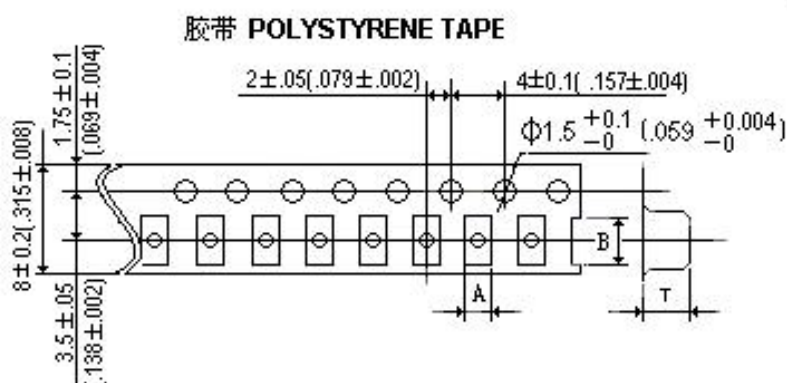
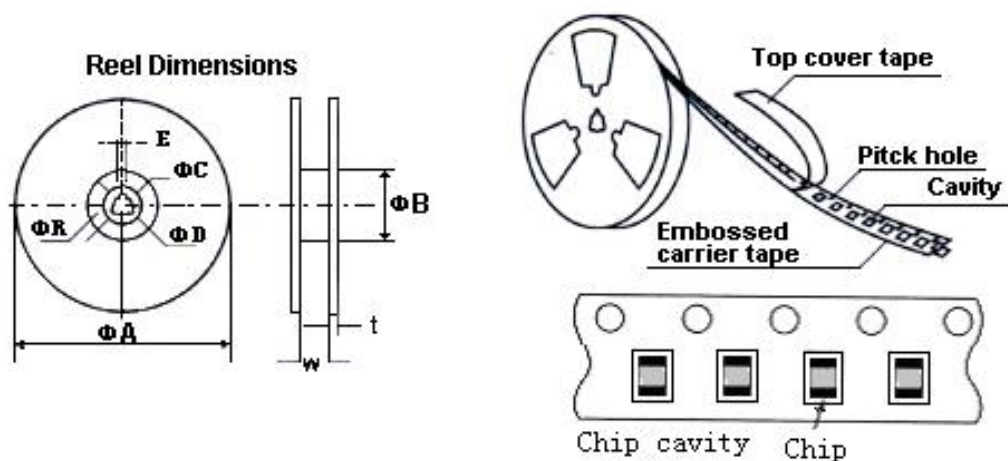
Use a 20 watt soldering iron with tip diameter of 1.0mm

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.
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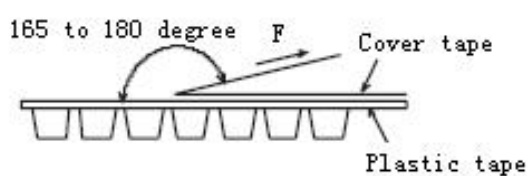
7. PACKAGE SPECIFICATION



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

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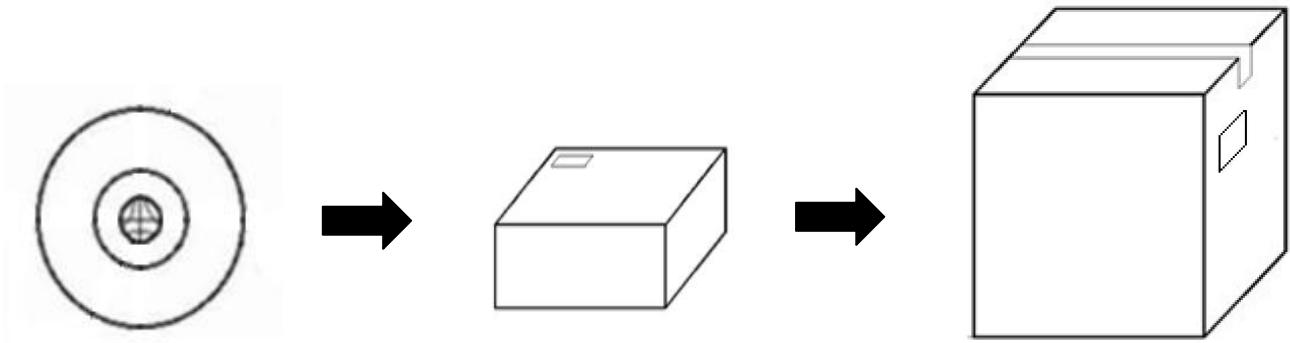


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8.Package Specifications

Inside Box And Outside Carton



卷轴数量	内盒包装数量	外箱包装数量
每卷:4000PCS	每盒四盘，共16000 PCS	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	外箱包装尺寸
	20.3*19.3*5.5cm	小箱， 40.6*23*19.7cm
		中箱， 41*22*26cm
		大箱， 41*22*33cm

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