Z403025 SERIES

1. PRODUCT DETAIL:

Item	Z403025
Part No.	
Electrical Requirements	Impedance $Z = 10\Omega \text{ Min.} (5 \text{ MHz})$ $Z = 30\Omega \text{ Min.} (25 \text{ MHz})$ $Z = 38\Omega \text{ Min.} (100 \text{MHz})$ $DCR = 0.6 \text{m} \Omega \text{ Max.}$

Test method :

Test Equipment	Agilent - 4287A
Test Frequency	5/25/100 MHz
Coil Spec.	FLAT.TCW (1.27W x0.20T)m/m



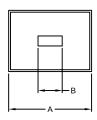
NOTE: Specifications subject to change without notice. Please check our website for latest information.

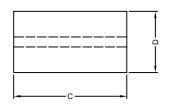


Z403025 SERIES

2. CONFIGURATION & DIMENSIONS:

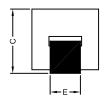
2-1. Core Size

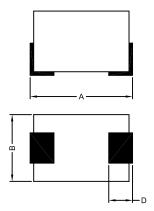




			Unit:m/m
Α	В	С	D
3.10±0.15	1.50±0.15	4.00±0.25	2.50±0.15

2-2. Taping Size





				Unit:m/m
А	В	С	D	E
4.30~5.10	2.80~3.20	2.70~3.10	1.00~2.00	1.27±0.15

PCB PATTERN

		Unit:m/m
I	G	Н
3.0 ref	1.0 ref	1.8 ref

3. GENERAL SPECIFICATION:

a) Storage temp.: +5°C to +40°C

b) Operating temp.: -40°C to +125°C

c) Humidity: 60%~70%RH

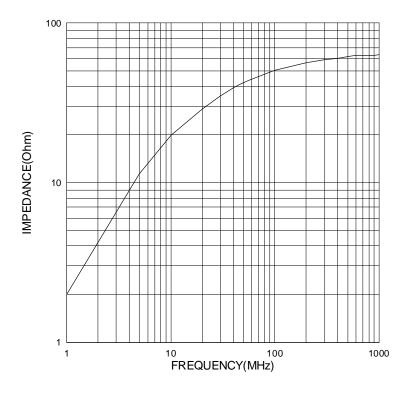


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Z403025 SERIES

4. CHARACTERISTICS CURVE:



Coil: Flat.TCW (1.27Wx0.20T) mm

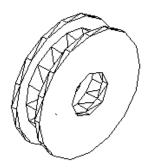
Meter: Agilent 4287A



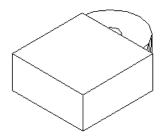
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Z403025 SERIES

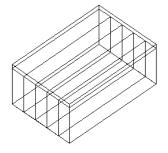
5. PACKAGING INFORMATION:



Tape and reel packing (Quantity: 500pcs/reel)



Each inner box contains 4 reels.



One carton has 20 inner boxes.

Total Qty: 40000 pcs (2000pcs x 20)

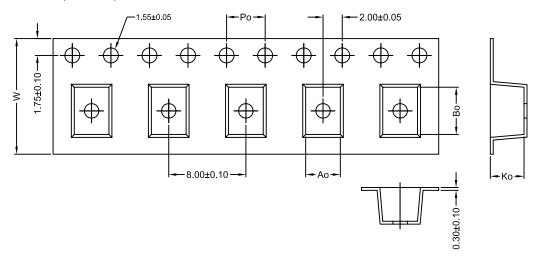


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Z403025 SERIES

5-2. Tape Dimensions (Unit: mm)



W	Po	Ao	Во	Ko	Quantity (Chips/Reel)	ı
12.00±0.30	4.00±0.10	3.60±0.10	4.90±0.10	3.50±0.10	500	ı



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6. RELIABILITY & TEST CONDITION:

Solder Heat Resistance

Solder: M705-GRN360-K2-V

Peak-temp hold time :4sec

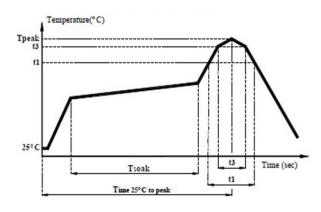
No Damage and No Abnormal on Surface Impedance: Within±20% of Initial Value More than 75% of the terminal electrode should be covered and umifomity with solder

Pre-heat Solder Temperature &Dip Reflow soldering time as follow

		Produc	ets
Item	mark	size≧350mm³of	size<350mm ³ of
		thickness≧2.5mm	thickness<2.5mm
Temperature rise gradient		3°C/sec(max)
Heating time Heating temperature	Tsoak	50s~150s 120℃~180	$^{\circ}$
Time over 217℃	t1	60sec	90sec
Time within 5°C of actual peak temperature	t3	10~30sec	10~30sec
peak temperature	Tpeak	250(±5°C)	260(±5℃)
Time 25°C to peak temperature			

The determination first primarily determines by fhe size then determines the altitade

Reflow soldering temperature profile





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Z403025 SERIES

6. RELIABILITY & TEST CONDITION:

ITEM	PERFORMANCE	TEST CONDITION
Solderability	Solder: M705-GRN360-K2-V Solder Temp:235°C±5°C Peak-temp hold time:5sec Pre-heat Solder Temperature &Dip time as follow	More than 90% of the terminal electrode should be covered and uniformity with fresh solder.
Terminal Strength	After soldering of X,Ywithstanding as below conditions The terminal should not peel off (Refer to figure as below) Define :A=sectional area of terminal A≤8mm² forec≥0.5kg, time:30sec 8mm² <a≤20mm² 20mm²<a="" forec≥1kg,="" forec≥2kg,="" td="" time:10sec="" time:10sec<=""><td>Terminal and body must not be damage or separate</td></a≤20mm²>	Terminal and body must not be damage or separate
Flesare Strength	Put the component solder chip on a test board and bend the board to 2mm then recovery to original point Unit:mm(inch) PC board 20(0.787) Beading 100(3.837)	No damage and no abnormal on chip body surface



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Z403025 SERIES

6. RELIABILITY & TEST CONDITION:

ITEM	PERFORMANCE	TEST CONDITION
Hight Temp Resistance Test	Operating temperature. : 125°C±3°C Applied Current : per spec Time : 96 Hrs Measure after exposure in the room Temperature for 4 to 24 Hrs	Appearance : no damage Impedance : Within±20% of Initial Value
Humidity Test	Temperature: 40°C±2°C Humidity: 95±2%R.H. Applied Current: per spec Time: 96 Hrs Measure after exposure in the room Temperature for 4 to 24 Hrs	Appearance : no damage Impedance : Within±20% of Initial Value
Temperature Cycling Test	One Cycle: +125°C /30Min -40°C /30Min Cycle Times: 5 Cycle Measure after exposure in the room Temperature for 4 to 24 Hrs	Appearance : no damage Impedance : Within±20% of Initial Value



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Z403025 SERIES

6. RELIABILITY & TEST CONDITION:

Peeling Force Test

1. Experiments the applicable scope

Per EIA-481 criteria, the procedures are suitable for Jantek packing process, which to Provide the SMT production for end customers

2. Test condition

2-1 Test machine : Peel Force Tester : PF-20002-2 Test Pull velocity : 300mm±10mm/min

2-3 Test Pulling force angle : The Carrier tape and Cover tape makes an angle between 165°~180°

3. Test Method:

- 3-1 Fix the carriner tape on the experimental station base
- 3-2 Take a section of the cover tape and clip it on the station jig
- 3-3 Turn on the machine and set the specification in "DATA SET"
- 3-4 Start the tests

4.Test Specification:

Carries tape width	Specificatiom(gr)
8~24mm	10~120
32~56mm	10~130

5. Test Cycle:

Each kind of size specification in the production every two weeks takes the 60cm experiment and the recording in the form.(QR2403)



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