



GLOBAL ETS

NEXT GENERATION COMPONENT TESTING & AUTHENTICATION

Laboratory Analysis Report

Report Number: 1000-46470
Date: 2023-03-02
Customer: NOVUS T.D LTD
Customer PO Number: 1812464
Customer Internal P/N: NOT AVAILABLE
Manufacturer: TDK
Manufacturer Part Number: ZJYS51R5-2PT-01
Quantity: 101
Date Code: 22
Lot Code: NOT AVAILABLE
Part Description: COMMON MODE CHOKES DUAL 200OHM 20MHZ TO 300MHZ 2A 120MOHM DCR SMD T/R



GB/T19001-2016/ISO9001:2015

Global ETS China

86-0755-829-11501

301 Room B Section ZhiDa Industry Park
LongPinXi Road LongCheng Street
LongGang District
Shenzhen
China

www.gets-china.com



Analysis Report - 1000-46470

Customer Name:	NOVUS T.D LTD	Purchase Order:	1812464
Part Number:	ZJYS51R5-2PT-01	Customer P/N:	NOT AVAILABLE
Manufacturer:	TDK	Devices Received:	101
Date Code:	22	Lot Code:	NOT AVAILABLE

1.0.0 Summary Of Inspection Results

Results Summary

Based on the results of the tests performed, we concluded that these devices are considered to be original manufactured devices. No anomalies or evidence of counterfeiting were found with the tested lot sample.

Test-Process Operation	Quantity Inspected	Pass	Fail	N/A	Comments / Observations
1.1.0 GR1 Documentation and Packaging Inspection - Level A1 - All devices (SAE AS6081, 4.2.6.4.1) (Non-destructive) Test Temperature 23°C +/- 3°C					
1.1.1 Condition Observed	101	101	0		Total 101pcs was received in tape format.
1.2.0 GV1 External Visual Inspection - Detailed - Level A2 - 122 Devices max (SAE AS6081, 4.2.6.4.2)(Non-destructive) Test Temperature 23°C +/- 3°C					
1.2.1 Condition Observed	10	10	0		No anomalies were found. Devices passed visual inspection.
1.3.0 GV1 Mechanical Inspection - 3 Devices (SAE AS6081)(Non-destructive) Test Temperature 23°C +/- 3°C					
1.3.1 Dimensions	1	1	0		Common Mode Chokes Dual 10.3uH 600Ohm 100MHz 2A 0.12Ohm DCR SMD T/R
1.4.0 GD1 Re-Marking - Marking Permanency - Level A3 - 3 Devices (SAE AS6081 4.2.6.4.3 A) Destructive, Test Temperature 23°C +/- 3°C					
1.4.1 Solvent Test for Re-marking - Permanency (SAE AS6081 4.2.6.4.3A)	1	1	0		Marking permanency test was performed on 1 device.No marking was removed during this process. Devices passed permanency testing.
1.5.0 GD1 Re-Surfacing - Acetone - Level A3 - 3 Devices (SAE AS6081 4.2.6.4.3 B) Destructive, Test Temperature 23°C +/- 3°C					
1.5.1 Solvent Test for Re-Surfacing - Acetone (CAS Registry 67-64-1)	1	1	0		Acetone test was performed on 1 device. No secondary coating was removed during this process. Device passed Acetone testing.
1.6.0 GD1 Re-Surfacing - 1-Methyl 2-Pyrrolidinone - Level A3 - 3 Devices (SAE AS6081 4.2.6.4.3 B) Destructive, (CAS Registry 872-50-4) Test Temperature 115°C to 120°C					
1.6.1 Solvent Test for Re-Surfacing - 1M 2P (CAS Registry 872-50-4)	1	1	0		1-Methyl 2-Pyrrolidinone was performed on 1 device. Devices were submerged in solution and heated to 115 - 120 °C for 2 to 5 min. No secondary coating was removed during this process. Devices passed 1-Methyl 2-Pyrrolidinone testing.
1.7.0 GD1 Re-Surfacing - Dynasolve 750 (or equivalent) - Level A3 - 3 Devices (SAE AS6081 4.2.6.4.3 B) Destructive, Dynasolve 750 (or equivalent) Test Temperature 105°C					
1.7.1 Solvent Test for Re-Surfacing - Heat Solvent (Dynasolve 750)	1	1	0		Heated Solvent Testing was performed on 1 device using Dynasolve 750 solution. No secondary coating was removed during this process. The device passed Heated Solvent testing.
1.8.0 GX1 X-Ray Inspection - Level A4 - 45 Devices max (SAE AS6081 4.2.6.4.4)(Non-destructive) Test Temperature 23°C +/- 3°C					
1.8.1 Internal Construction	10	10	0		10 samples were X-ray. Die construction and size are all the same. No anomalies were found.
1.9.0 GX1 XRF, Lead Finish Analysis - Level A5 - 3 Devices (SAE AS6081 4.2.6.4.5)(Non-destructive) Test Temperature 23°C +/- 3°C					
1.9.1 Rohs Compliant	1	1	0		XRF were performed on 1 sample. No restricted elements were detected. Devices meet EU RoHS Directive 2011/65/EU Annex. Devices confirmed to be RoHS compliant.
1.10.0 GE1 Electrical Test - Level C - 116 Devices max (MIL-STD-883 and Manufacturer Specification)(Non-destructive)					
1.10.1 DC Function Test TA = 25°C	10	10	0		ZJYS51R5-2PT-01: 2 Line Common Mode Choke Surface Mount 200 Ohms @ 100 MHz 2A DCR 120mOhm Tested 10 samples,passed 10 samples
Equipment Used		LOW RESISTANCE TESTER Asset Tag: 12 Calibration Due Date: 2023-02-09 Cert: HK0918446			

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Manufacturer:	TDK	Devices Received:	101
Date Code:	22	Lot Code:	NOT AVAILABLE

2.0.0 Documentation and Packaging Inspection - Level A1 - All devices (SAE AS6081, 4.2.6.4.1) (Non-destructive)

Results Summary
Total 101pcs was received in tape format.

	Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations
2.1.0	Incoming Conditions					
2.1.1	ESD Protection	X				
2.1.2	Poor Syntax or Alterations				X	Manufacturer label is not available
2.1.3	Correct MSL Packaging				X	
2.1.4	Quantity Match Document	X				101pcs
2.1.5	Box Damaged				X	
2.1.6	Type of Package	X				Tape format

Images For Documentation and Packaging Inspection - Level A1 - All devices .



Figure 1. RECEIVED

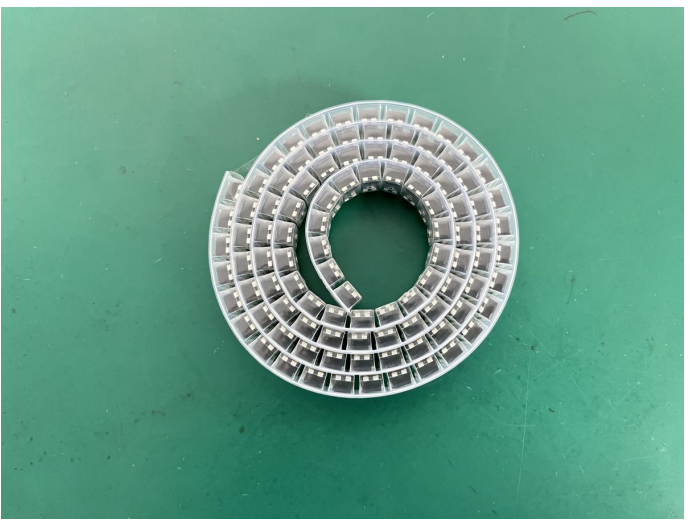


Figure 2. RECEIVED 1

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Date Code:	22	Lot Code:	NOT AVAILABLE

3.0.0 External Visual Inspection - Detailed - Level A2 (SAE AS6081, 4.2.6.4.2.2) (Non-destructive)

	Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations
3.1.0	External Conditions					
3.1.1	Markings - Top	X				
3.1.2	Pin 1 - Top	X				
3.1.3	Construction Quality	X				Devices are in new condition
3.2.0	Lead / BGA Conditions					
3.2.1	Lead Alignment	X				Acceptable
3.2.2	Lead Formation / Scratches	X				Acceptable
3.2.3	Lead Missing Pins	X				None were observed
3.2.4	Lead Plating Composition	X				Acceptable
3.2.5	Lead Excessive or Uneven Plating	X				Acceptable
3.2.6	Lead Discoloration, Dirt or Residue	X				Acceptable
3.2.7	Lead Oxidation	X				Acceptable

Images For External Visual Inspection - Detailed - Level A2 .



Figure 3. TOP

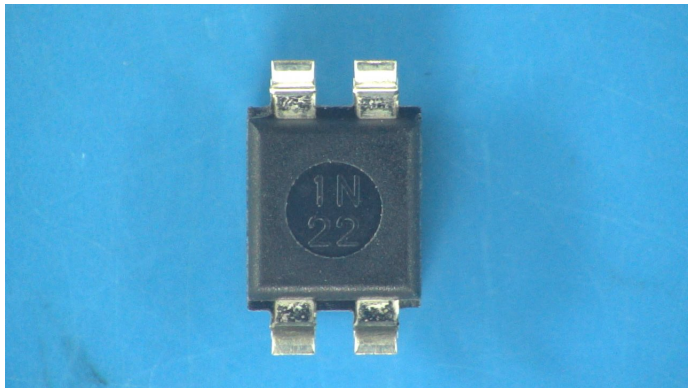


Figure 4. BOTTOM

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Figure 5. BOTTOM PIN

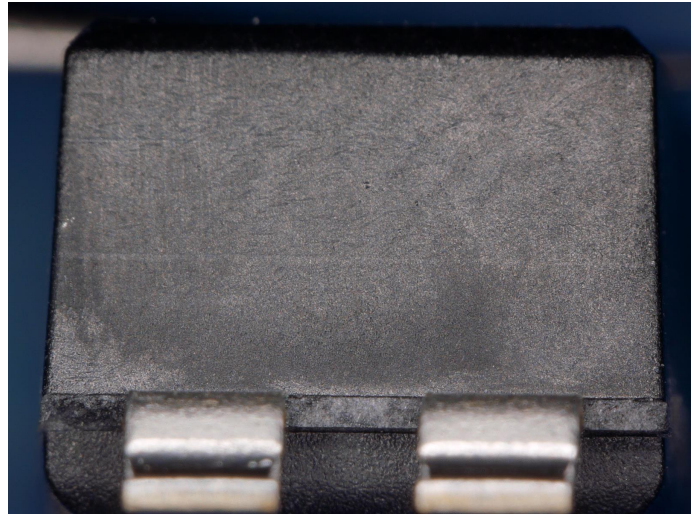


Figure 6. SIDE

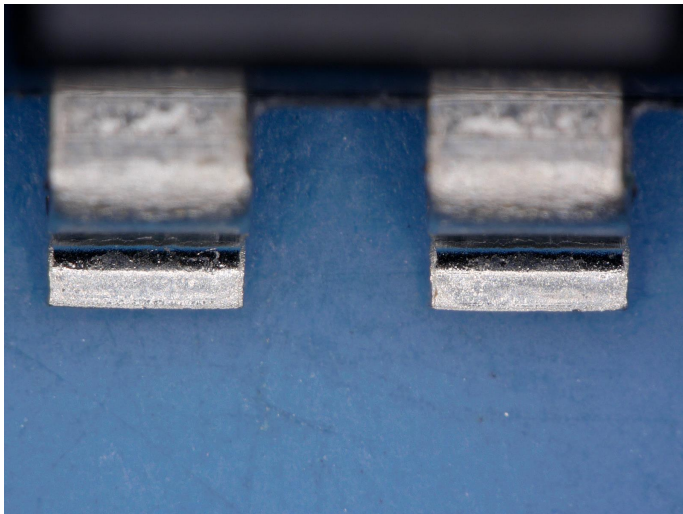


Figure 7. TOP LEADS

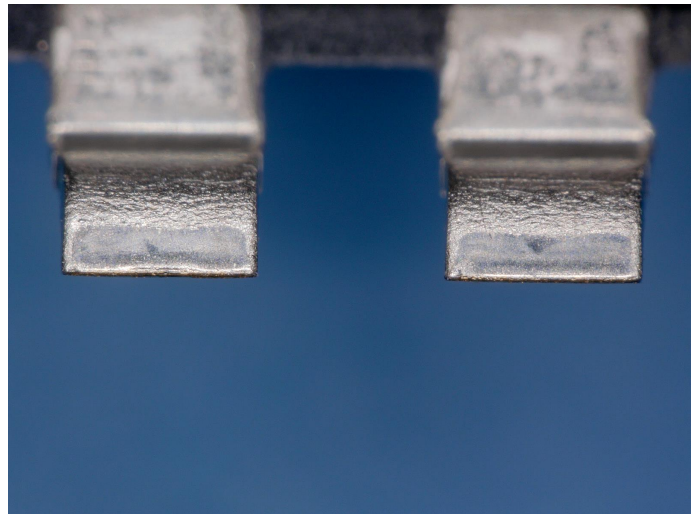


Figure 8. BOTTOM LEADS

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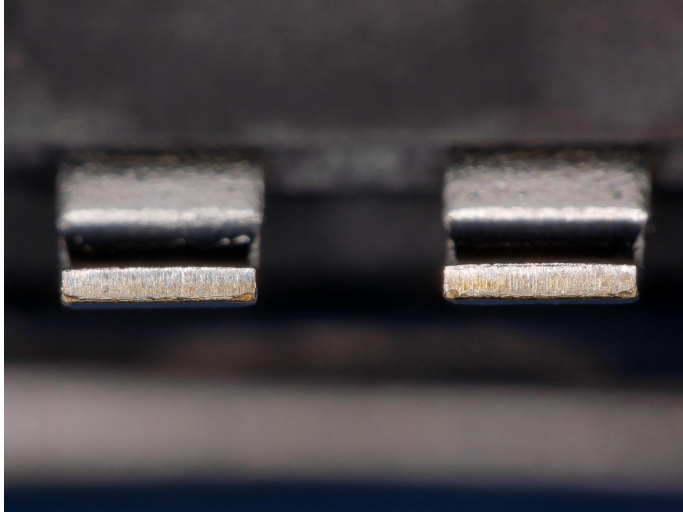


Figure 9. LEADS END

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Date Code:	22	Lot Code:	NOT AVAILABLE

4.0.0 Mechanical Inspection (SAE AS6081)(Non-destructive) Test Temperature 23°C +/- 3°C

Results Summary

Length =5.40 mm (5.50 mm max) Pass
 Width =6.19 mm (6.86 mm max) - Pass
 Thickness =4.20 mm (4.57 mm max) - Pass

	Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations
4.1.0	Package Dimensions					
4.1.1	Dimensions	X				

Images For Mechanical Inspection .



Figure 10. LENGTH



Figure 11. WIDTH



Figure 12. THICKNESS

Images For Mechanical Inspection . (Continued From Previous Page)

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■ SHAPE & DIMENSIONS

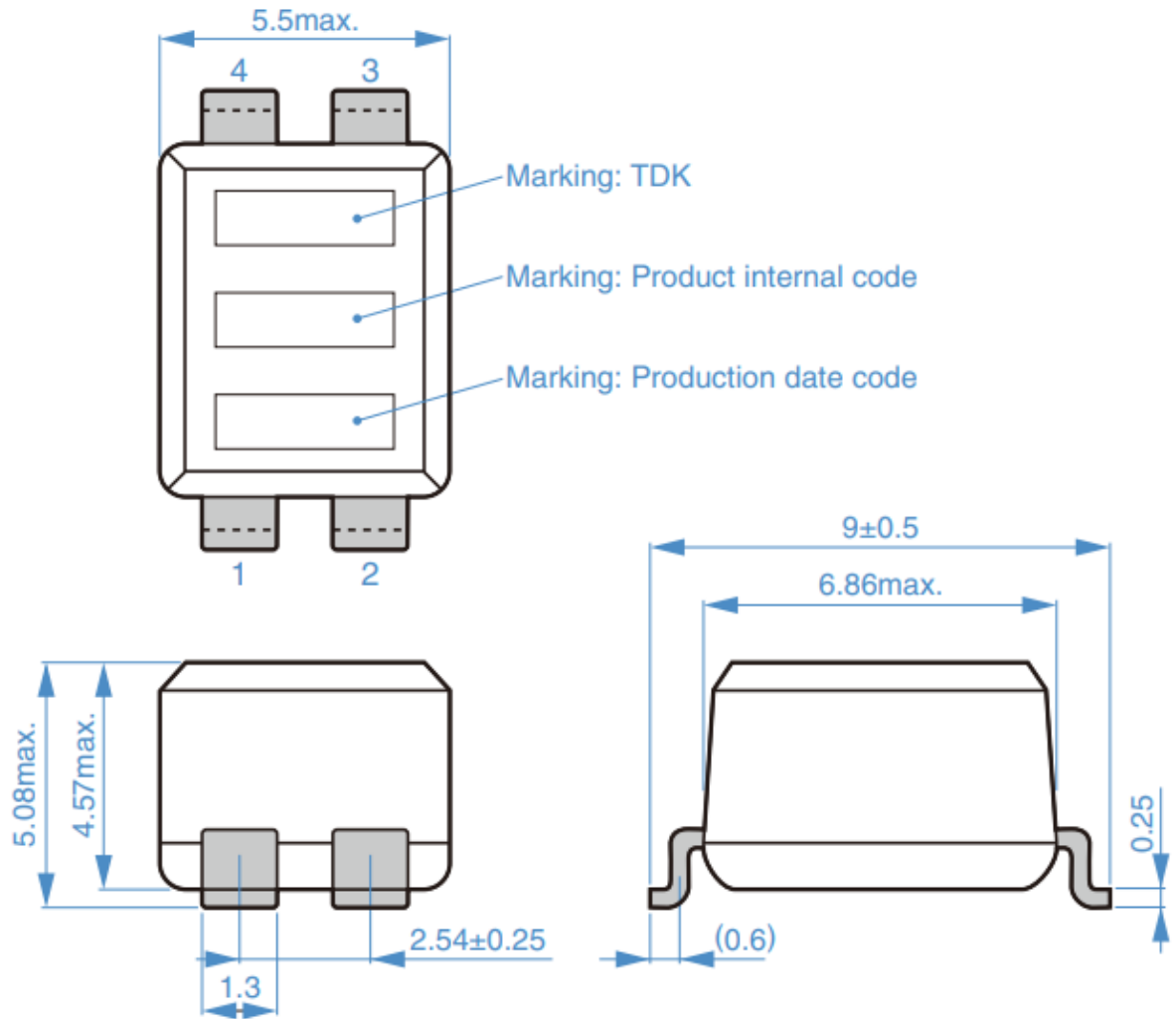



Figure 13. DIEMSNION

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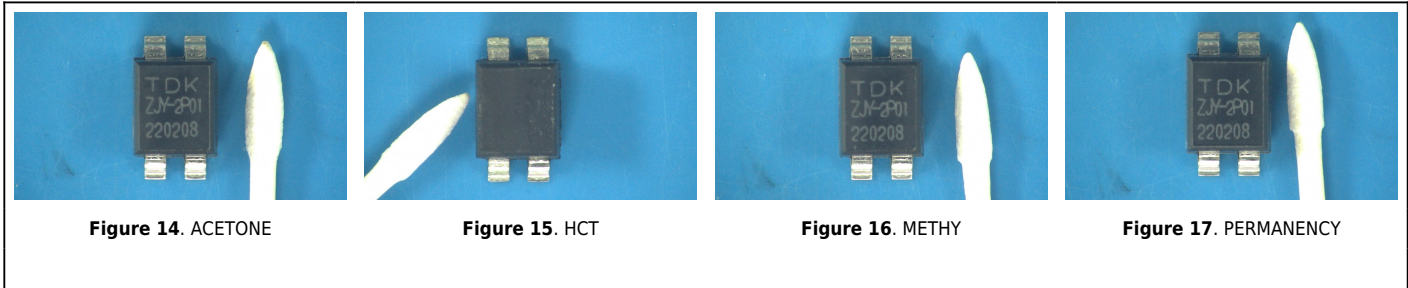
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	Date Code:	22	Lot Code:	NOT AVAILABLE

5.0.0 Remarking and Resurfacing (SAE AS6081 4.2.6.4.3 A / 4.2.6.4.3 B)

Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations
5.1.0 Re-Surfacing / Re-Marking Testing					
5.1.1 Solvent Test for Re-marking - Permanency (Destructive) (SAE AS6081 4.2.6.4.3A)	X				Marking permanency test was performed on 1 device.No marking was removed during this process. Devices passed permanency testing.
Test Specifications					
5.1.2 Solvent Test for Re-Surfacing - Acetone (Destructive)(CAS Registry 67-64-1)	X				Acetone test was performed on 1 device. No secondary coating was removed during this process. The device passed Acetone testing.
5.1.3 Solvent Test for Re-Surfacing - 1M 2P (Destructive)(CAS Registry 872-50-4)	X				1-Methyl 2-Pyrrolidinone was performed on 1 device. Devices were submerged in solution and heated to 115 - 120 °C for 2 to 5 min. No secondary coating was removed during this process. Devices passed 1-Methyl 2-Pyrrolidinone testing.
5.1.4 Solvent Test for Re-Surfacing - Heat Solvent (Destructive) Dynasolve 750	X				Heated Solvent Testing was performed on 1 device using Dynasolve 750 solution. No secondary coating was removed during this process. The device passed Heated Solvent testing.

Images For Remarking and Resurfacing .



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6.0.0 X-Ray Inspection - Level A4 (SAE AS6081 4.2.6.4.4)(Non-destructive)

Results Summary
10 samples were X-ray. Die construction and size are all the same. No anomalies were found.

	Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations
6.1.0	X-Ray Analysis					
6.1.1	Die Construction	X				
6.1.2	Wire Bond Layout/Quality	X				
6.1.3	Lead Frame Construction	X				

Images For X-Ray Inspection - Level A4.

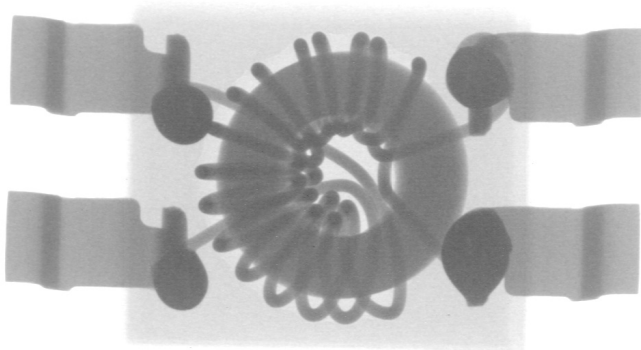


Figure 18. XRAY VIEW 1

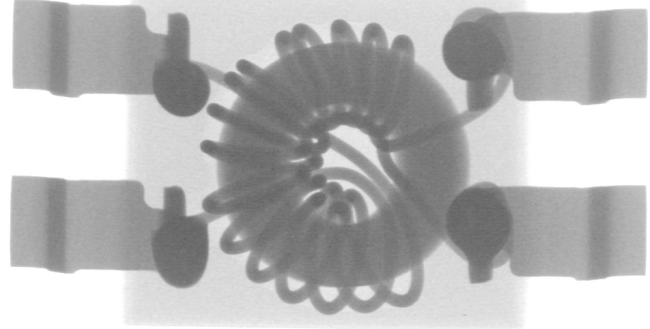


Figure 19. XRAY VIEW 2

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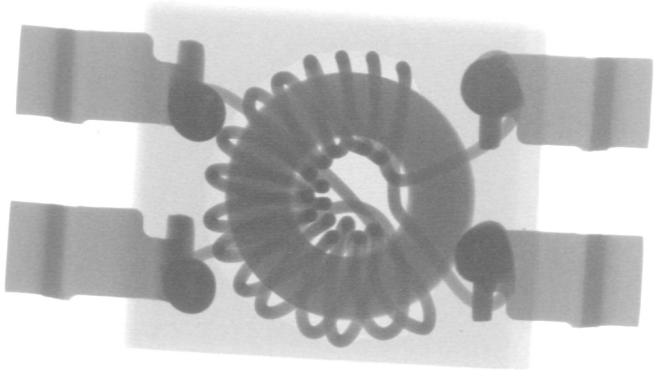


Figure 20. XRAY VIEW 3

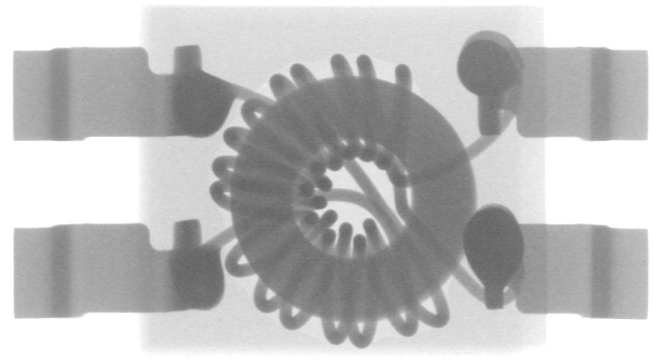


Figure 21. XRAY VIEW 4

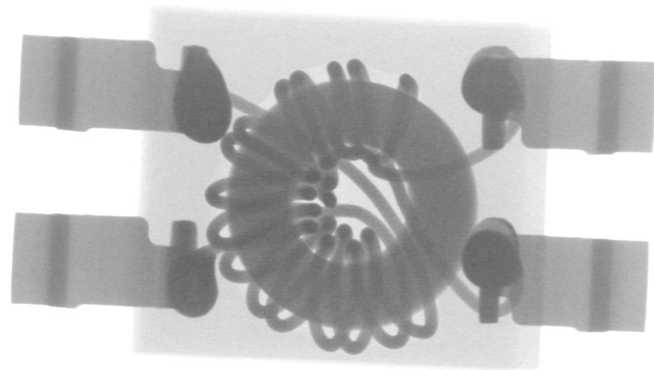


Figure 22. XRAY VIEW 5

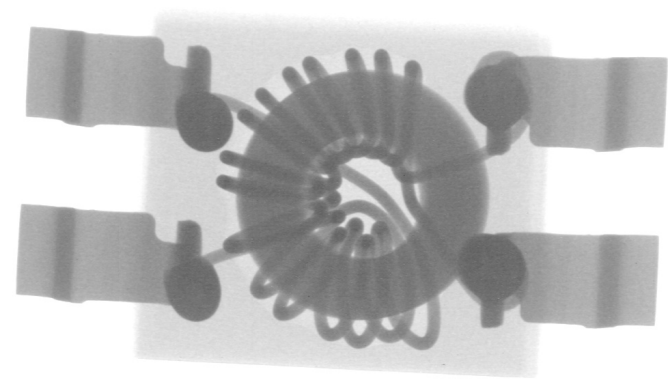


Figure 23. XRAY VIEW 6

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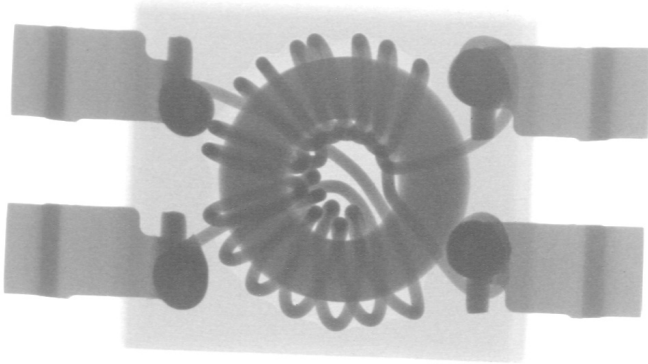


Figure 24. XRAY VIEW 7

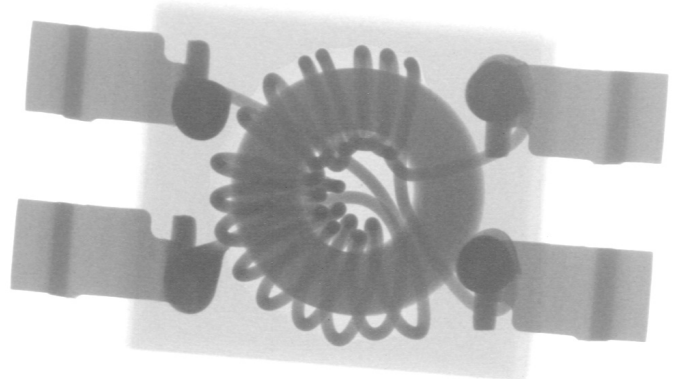
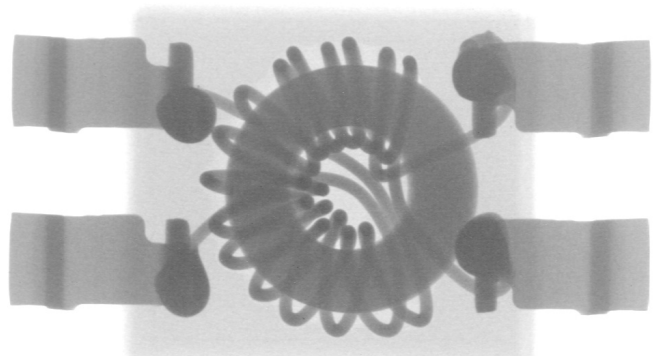
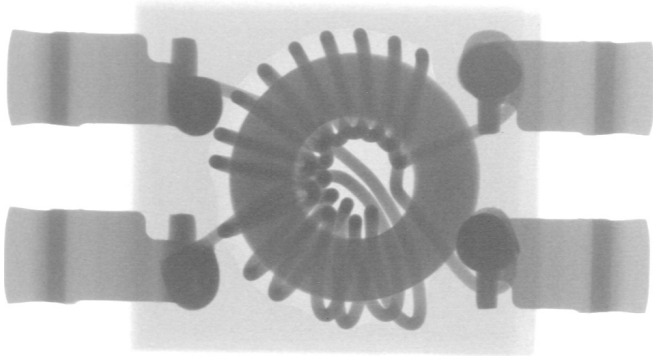


Figure 25. XRAY VIEW 8



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Figure 26. XRAY VIEW 9

Figure 27. XRAY VIEW 10

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Manufacturer:	TDK	Devices Received:	101
Date Code:	22	Lot Code:	NOT AVAILABLE

7.0.0 XRF, Lead Finish Analysis - Level A5 (SAE AS6081 4.2.6.4.5)(Non-destructive)

Results Summary

XRF were performed on 1 sample. No restricted elements were detected. Devices meet EU RoHS Directive 2011/65/EU Annex. Devices confirmed to be RoHS compliant.

	Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations
7.1.0	XRF, Lead Finish Analysis					
7.1.1	RoHS Compliant	X				
	Test Specifications					

Images For XRF, Lead Finish Analysis - Level A5.

Testing Report

Report ID: 230224-005

Split/Serial
352-000-000-008

Vendor: NOVUS

Assemble: 2023-02-24 10:08:02

Part:

Split: 1211

Batch: 22+

Sample ID
ZJYS51R5-2PT-01

Testing Date

Matrix:
金属

Item	Testing Result (ppm)	MDL	Limitation	Judgement
Lead (Pb)	N. D.	5	1000	Passed
Cadmium (Cd)	N. D.	5	100	Passed
Mercury (Hg)	N. D.	5	1000	Passed
Chromium (Cr)	N. D.	5	1000	Passed

Note:
N.D. means Non-Detected, MDL means Method Detection Limitation, B.C. mean Beyond Calibration, ppm means mg/kg each of sample, "--" means not Analyzed.

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Figure 28. XRF

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Analysis Report - 1000-46470

Customer Name:	NOVUS T.D LTD	Purchase Order:	1812464
Part Number:	ZJYS51R5-2PT-01	Customer P/N:	NOT AVAILABLE
Manufacturer:	TDK	Devices Received:	101
Date Code:	22	Lot Code:	NOT AVAILABLE

8.0.0 Electrical Test - Level C (MIL-STD-883 and Manufacturer Specification)

Results Summary

ZJYS51R5-2PT-01: 2 Line Common Mode Choke Surface Mount 200 Ohms @ 100 MHz 2A DCR 120mOhm
 Tested 10 samples, passed 10 samples

	Test-Process Operation	Quantity Inspected	Pass	Fail	N/A	Comments / Observations
8.1.0	Electrical Test (MIL-STD-883 and Manufacturer Specification)					
8.1.1	DC Function Test TA = 25°C	10	10	0		
Equipment Used		LOW RESISTANCE TESTER Asset Tag: 12 Calibration Due Date: 2023-02-09 Cert: HK0918446				

Images For Electrical Test - Level C .

ZJYS51R5-

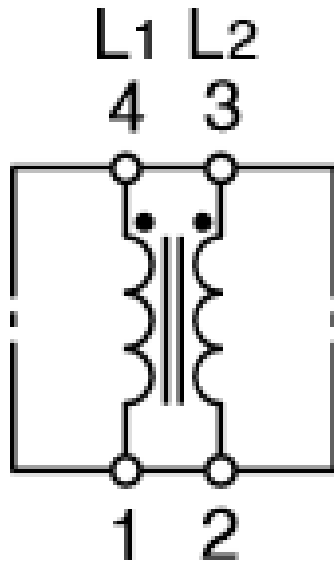


Figure 29. DEVICE PIN OUT

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Part No.	ZJYS51R5-2PT-01
Rated voltage Edc(V)	50
Rated current (A)	2
Test voltage Edc(V)	125
[Between terminals for 5s]	
Insulation resistance (MΩ)	100 min.
[Between terminals at DC.50V for 1min]	
DC resistance (Ω) [1 line]	0.12 max.
Impedance (Ω)[+5 to +35°C]	200 min.[20 to 300MHz]

Figure 30. ELECTRICAL CHARACTERISTICS

DC Resistance (1 line) = 0.12(Ω) Max.

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Approved by:		Page:
PETER YAN	Global Electronics Testing Services LongGang District, Shenzhen China 86-0755-82911501	Page 15 Of 16



Analysis Report - 1000-46470

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Figure 31. LIN1 PIN 1 TO PIN 4 DC RESISTANCE

DC Resistance R(1-4) = 32.14(mΩ)
 DC Resistance (Max) = 120(mΩ)
 Passed!



Figure 32. LIN2 PIN 2 TO PIN 3 DC RESISTANCE

DC Resistance R(2-3) = 31.96(mΩ)
 DC Resistance (Max) = 120(mΩ)
 Passed!

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