MateriaLab Division, Fugro Development Centre, 5 Lok Yi Street, 17 M.S. Castle Peak Road, Tai Lam, Tuen Mun, N.T., Hong Kong.

: +852-2450 8233 : +852-2450 6138 E-mail : matlab@fugro.com.hk Website: www.fugro.com



# REPORT ON FIXED **INDUCTOR**

Client : Climax Industrial Co., Ltd.

Project

: Testing of Fixed Inductor

Client Ref. : --

Report No. : 013715ST20464(1)

Date

: 26 September 2002



MateriaLab Division.

Fugro Development Centre,

5 Lok Yi Street, 17 M.S. Castle Peak Road, Tai Lam, Tuen Mun, N.T., Hong Kong.

Tel : +852-2450 8233 Fax : +852-2450 6138 E-mail: matlab@fugro.com.hk MateriaLah

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Client Ref.

Website: www.fugro.com

Report No. 013715ST20464(1)

#### 1.0 Introduction

Fugro Technical Services Limited, MateriaLab Division was commissioned by the client, Climax Industrial Co., Ltd. to conduct a serivecs of tests for the fixed inductors in accordance with Client's specification.

The test fixed inductors were received by MateriaLab on 22 April 2002 and given Lab. Sample I.D.: ST20464/1B-80B.

#### 2.0 Laboratory Information

Date Tested

: 21 May to 24 July 2002

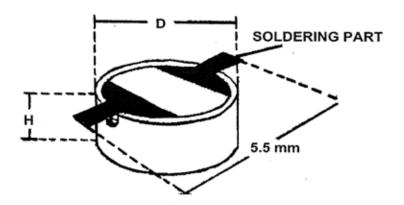
Test Item

: Fixed Inductor (Voltage Step-up Coil)

Model No.: CL3320T-6B/35(10)

Diameter: 3.3 mm Height : 2.0 mm Length : 5.5 mm

Width : 0.85 mm max.



Test Procedure

: In accordance with Client's specifications for fixed inductor

(Voltage Step-up Coil)

#### 3.0 **Test Results**

The summary test results and individual test results are shown on the page 2 and page 3 to 11 for this report respectively.





MateriaLab Division,

Fugro Development Centre.

5 Lok Yi Street, 17 M.S. Castle Peak Road, Tai Lam, Tuen Mun, N.T., Hong Kong.

: +852-2450 8233 Fax : +852-2450 6138

E-mail: matlab@fugro.com.hk Website: www.fugro.com

Client Ref.

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Report No.

013715ST20464(1)

# SUMMARY TEST REPORT ON FIXED INDUCTOR

# Information Supplied by Client

Client Climax Industrial Co., Ltd. Project Testing of Fixed Inductor

Sample Description Fixed Inductor (Voltage Step-up Coil)

Model No. : CL3320T-6B/35(10)

Diameter : 3.3 mm Height : 2.0 mm : 5.5 mm Length

Width : 0.85 mm max.

Laboratory Information

Lab. Sample I.D. ST20464/1B-80B Date Received 22 April 2002 Date Test Started 21 May 2002 Date Test Completed 23 July 2002

Test Method In accordance with client's specification

# **Test Results**

Test Item	Lab. Sample I.D.	Maximum in Induc (%	tance	Client's Specification	Results		
Temperature Characteristics Test	ST20464/1B-10B	-0.4	1	≤± 5%	Comply		
Humidity Characteristics Test	ST20467/11B-20B	-4.7	-4.7 ≤± 10%		Comply		
Heat Resistance Test	ST20464/21B-30B	-1.9	-1.9		Comply		
Thermal Shock Test	ST20464/31B-40B	-2.1		-2.1		≤± 10%	Comply
Solderability Test	ST20464/41B-50B	-2.8		The terminal shall be as least 90% cover with solder	Comply		
Resistance to Soldering Heat Test	ST20464/51B-60B	-2.9	)	There shall not be case deformation or change in appearance	Comply		
Vibration Test	ST20464/61B-70B	-4.2	2	There shall not be case deformation or change in appearance	Comply		
Shock Test	ST20464/71B-75B	After dropped onto wood	+0.1	There shall not be case	Owner		
SHOCK TEST	3120404//1B-/5B	After dropped onto concrete	-2.4	deformation or change in appearance	Comply		
Substrate Bending Test	ST20464/76B-80B	-2.2		-2.2 ≤± 5%		≤± 5%	Comply

Remark: This report is a supplement to test report no. 013715ST20464.

Checked by: Lacale Date: 27.9.1002 Certified by:

Gary Winstanley

MateriaLab Division,

Fugro Development Centre,

5 Lok Yi Street, 17 M.S. Castle Peak Road. Tai Lam, Tuen Mun, N.T., Hong Kong.

Tel : +852-2450 8233 : +852-2450 6138

E-mail : matlab@fugro.com.hk Website: www.fugro.com

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Client Ref. Report No.

013715ST20464(1)

Page 3 11

# REPORT ON TEMPERATURE CHARACTERISTICS TEST OF FIXED INDUCTOR

Information Supplied by Client

Client

Climax Industrial Co., Ltd.

Project

Testing of Fixed Inductor

Sample Description

Fixed Inductor (Voltage Step-up Coil) Model No. : CL3320T-6B/35(10)

Diameter

: 3.3 mm

Height

: 2.0 mm : 5.5 mm

Length Width

: 0.85 mm max.

Laboratory Information

Lab. Sample I.D.

ST20464/1B-10B

Date Received

22 April 2002 21 May 2002

Date Test Started Date Test Completed

28 May 2002

Test Method

In accordance with client's specification of fixed inductor

with modification : --

Inductors were subjected to -20°C to 85°C for 30 min each.

The values were measured at 25°C

Measuring Equipment

**Dual Display LCR Meter** 

Manufacturer : AVO Model No. : B131 Serial No.: 01061088

Test Frequency

1 kHz

#### **Test Results**

Lab.	Inductar	nce (mH)	Change in Inductance		
Sample I.D.	Before Test	After Test	(%)	Specification	
ST20464/1B	5.942	5.943	0.0		
ST20464/2B	6.978	6.947	-0.4		
ST20464/3B	6.963	6.962	0.0		
ST20464/4B	5.560	5.552	-0.1		
ST20464/5B	5.935	5.924	-0.2		
ST20464/6B	6.020	6.010	-0.2	≤ ± 5%	
ST20464/7B	5.089	5.089	0.0		
ST20464/8B	6.774	6.781	0.1		
ST20464/9B	6.353	6.341	-0.2		
ST20464/10B	6.091	6.083	-0.1		

Remarks :

1.) The test results relate only to the sample tested.

The test results comply with the requirement of client's specification of fixed inductor. 2.)

This report is a supplement to test report no. 013715ST20464.

Checked by: 1000 Certified by:

Gary Winstanley

Date: 27/9/02



MateriaLab Division.

Fugro Development Centre,

5 Lok Yi Street, 17 M.S. Castle Peak Road. Tai Lam, Tuen Mun, N.T., Hong Kong.

Tel : +852-2450 8233 Fax : +852-2450 6138

E-mail: matlab@fugro.com.hk Website: www.fugro.com

Client Ref.

Sample Description

013715ST20464(1)

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# REPORT ON HUMIDITY CHARACTERISTICS TEST OF FIXED INDUCTOR

# Information Supplied by Client

Client

Report No.

Climax Industrial Co., Ltd. Testing of Fixed Inductor

Project

Fixed Inductor (Voltage Step-up Coil)

Model No.

: CL3320T-6B/35(10)

Diameter

: 3.3 mm

Height

: 2.0 mm : 5.5 mm

Length Width

: 0.85 mm max.

### **Laboratory Information**

Lab. Sample I.D.

ST20464/11B-20B

Date Received

22 April 2002

Date Test Started Date Test Completed 21 May 2002 18 June 2002

Test Method

In accordance with client's specification of fixed inductor: --

Inductors were subjected to 90 to 95% RH at 60 ± 2°C for

500 ± 8 hours. Measurements were made after 2 hours stabilization

at room temperature

Measuring Equipment

**Dual Display LCR Meter** 

Manufacturer : AVO Model No. : B131 Serial No. : 01061088

**Test Frequency** 

1 kHz

#### **Test Results**

Lab.	Inductance (mH)		Change in		Specification	
Sample I.D.	Before Test	After Test	Inductance (%)	Observation	Change in Inductance (%)	Observation
ST20464/11B	5.685	5.589	-1.7			There shall not be case deformation or change in appearance
ST20464/12B	5.377	5.358	-0.4		4.40%	
ST20464/13B	5.025	5.032	0.1			
ST20464/14B	6.021	6.006	-0.2			
ST20464/15B	6.005	5.992	-0.2	No deformation or		
ST20464/16B	6.421	6.120	-4.7	change in appearance	≤ ± 10%	
ST20464/17B	5.375	5.357	-0.3			
ST20464/18B	6.641	6.631	-0.2			
ST20464/19B	5.971	5.938	-0.6			
ST20464/20B	5.724	5.719	-0.1			

Remarks 1.) The test results relate only to the sample tested.

The test results comply with the requirement of client's specification of fixed inductor.

3.) This report is a supplement to test report no. 013715ST20464.

Checked by: Naccell our Date: 27.9-2002 Certified by:

Gary Winstanley

Date: 27/9/02



MateriaLab Division, Fugro Development Centre.

5 Lok Yi Street, 17 M.S. Castle Peak Road, Tai Lam, Tuen Mun, N.T., Hong Kong.

Tel : +852-2450 8233 Fax · ±852-2450 6138 E-mail: matlab@fugro.com.hk

Website: www.fugro.com



Client Ref. Report No.

013715ST20464(1)

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# REPORT ON HEAT RESISTANCE TEST OF FIXED INDUCTOR

# Information Supplied by Client

Client Project Climax Industrial Co., Ltd. Testing of Fixed Inductor

Fixed Inductor (Voltage Step-up Coil)

Sample Description

Model No. : CL3320T-6B/35(10)

Diameter Height

: 3.3 mm : 2.0 mm : 5.5 mm

Length Width

: 0.85 mm max.

**Laboratory Information** 

Lab. Sample I.D.

ST20464/21B-30B

Date Received Date Test Started

22 April 2002 21 May 2002

Date Test Completed

18 June 2002

Test Method

In accordance with client's specification of fixed inductor: --Inductors were be subjected to 85 ± 2°C for 500 ± 8 hours Measurements were made after 2 hours stabilization at room

temperature

Measuring Equipment

**Dual Display LCR Meter** 

Manufacturer : AVO Model No. : B131 Serial No.: 01061088

Test Frequency

1 kHz

## **Test Results**

	•					
Lab.	Inductance (mH)		Change in		Specification	
Sample I.D.	Inductance   Observation		Observation	Change in Inductance (%)	Observation	
ST20464/21B	5.772	5.764	-0.1			
ST20464/22B	6.527	6.490	-0.6	1		There shall not be case deformation or change in
ST20464/23B	5.897	5.830	-1.1	1		
ST20464/24B	6.470	6.426	-0.7	1		
ST20464/25B	6.955	6.931	-0.3	No deformation or		
ST20464/26B	6.818	6.777	-0.6	change in appearance	≤ ± 10%	
ST20464/27B	6.269	6.249	-0.3	1		appearance
ST20464/28B	6.911	6.783	-1.9			
ST20464/29B	5.169	5.127	-0.8			.
ST20464/30B	5.593	5.581	-0.2			

Remarks 1.) The test results relate only to the sample tested.

The test results comply with the requirement of client's specification of fixed inductor.

This report is a supplement to test report no. 013715ST20464

Checked by : Lacollow Date : 27-7-2002 Certified by :

Date: 27/9/02 Gary Winstanley





MateriaLab Division, Fugro Development Centre,

5 Lok Yi Street, 17 M.S. Castle Peak Road, Tai Lam, Tuen Mun, N.T., Hong Kong.

Tel : +852-2450 8233 Fax : +852-2450 6138 E-mail: matlab@fugro.com.hk Website: www.fugro.com



Client Ref. Report No.

013715ST20464(1)

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# REPORT ON THERMAL SHOCK TEST OF FIXED INDUCTOR

# Information Supplied by Client

Client

Climax Industrial Co., Ltd.

Project

Testing of Fixed Inductor

Sample Description

Fixed Inductor (Voltage Step-up Coil) Model No.

: CL3320T-6B/35(10)

Diameter Height

: 3.3 mm : 2.0 mm : 5.5 mm

Length Width

: 0.85 mm max.

# Laboratory Information

Lab. Sample I.D.

ST20464/31B-40B

Date Received

22 April 2002 21 May 2002

Date Test Started Date Test Completed

13 June 2002

Test Method

In accordance with client's specification of fixed inductor

with modification: --

Inductors were subjected to 100 times of the temperature cycle of -20°C to 85°C (30 min each) Measurements were made after 2 hours

stabilization at room temperature.

Measuring Equipment

**Dual Display LCR Meter** 

Manufacturer: AVO Model No. : B131 Serial No.: 01061088

Test Frequency

1 kHz

#### Test Results

Lob	Inductance (mH)		Change in		Specification	
Sample I.D.	Sample I.D. Before Test After Test (%)  Observation		Observation	Change in Inductance (%)	Observation	
ST20464/31B	6.591	6.525	-1.0			
ST20464/32B	6.247	6.180	-1.1	1		
ST20464/33B	6.246	6.205	-0.7	1		
ST20464/34B	6.825	6.766	-0.1	1		There shall not be case deformation
ST20464/35B	6.018	5.988	-0.5	No deformation or	z ± 100/	
ST20464/36B	5.933	5.862	-1.2	change in appearance	≤ ± 10%	or change in
ST20464/37B	6.731	6.708	-0.3			appearance
ST20464/38B	5.352	5.332	-0.4	1		
ST20464/39B	4.427	6.338	-1.4	]		
ST20464/40B	5.607	5.491	-2.1	1		

Remarks 1.) The test results relate only to the sample tested.

2.) The test results comply with the requirement of client's specification of fixed inductor.

This report is a supplement to test report no. 013715ST20464.

Checked by : hocolina Date : 77.7.2012 Certified by :





MateriaLab Division, Fugro Development Centre,

5 Lok Yi Street, 17 M.S. Castle Peak Road, Tai Lam, Tuen Mun, N.T., Hong Kong.

: +852-2450 8233 : +852-2450 6138 Fax E-mail: matlab@fugro.com.hk Website: www.fugro.com

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Client Ref. Report No.

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of

# REPORT ON SOLDERABILITY TEST OF FIXED INDUCTOR

Information Supplied by Client

Client Project Climax Industrial Co., Ltd. Testing of Fixed Inductor

Sample Description

Fixed Inductor (Voltage Step-up Coil) Model No. : CL3320T-6B/35(10)

Diameter

: 3.3 mm

Height

: 2.0 mm : 5.5 mm

Length Width

: 0.85 mm max.

**Laboratory Information** 

Lab. Sample I.D.

ST20464/41B-50B

Date Received

22 April 2002 23 July 2002

Date Test Started Date Test Completed

24 July 2002

Test Method

In accordance with client's specification of fixed inductor: --

After fluxing, inductors were dipped in melted solder bath at

230 ± 5°C for 2 ± 0.5sec.

Measuring Equipment

Dual Display LCR Meter

Manufacturer : AVO Model No. : B131 Serial No.: 01061088

**Test Frequency** 

1 kHz

#### **Test Results**

Lab. Sample I.D. Be	Inductar	nce (mH)	Change in	Percentage of	
	Before Test	After Test	Inductance (%)	Terminal Covered with solder	Specification
ST20464/41B	6.825	6.707	-1.7	100	
ST20464/42B	6.723	6.583	-2.1	100	
ST20464/43B	6.670	6.622	-0.7	100	
ST20464/44B	6.461	6.443	-0.3	100	
ST20464/45B	6.764	6.645	-1.8	100	The terminal shall be as least 90% cover
ST20464/46B	6.826	6.746	-1.2	100	with solder
ST20464/47B	5.478	5.317	-2.8	100	
ST20464/48B	6.606	6.509	-1.5	100	
ST20464/49B	6.465	6.371	-1.5	100	
ST20464/50B	6.045	6.002	-0.7	100	

Remarks:

The test results relate only to the sample tested. 1.)

The test results comply with the requirement of client's specification of fixed inductor. 2.)

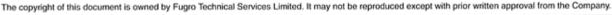
This report is a supplement to test report no. 013715ST20464.

Checked by: 1000 clean Date: 27.9.2002 Certified by:

Gary Winstanley

Date: 27/9/02





MateriaLab Division,

Fugro Development Centre,

5 Lok Yi Street, 17 M.S. Castle Peak Road, Tai Lam, Tuen Mun, N.T., Hong Kong. Tel : +852-2450 8233 Fax : +852-2450 6138 E-mail : matlab@fugro.com.hk

Website: www.fugro.com

MateriaLab

Client Ref. Report No. : --

013715ST20464(1)

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# REPORT ON RESISTANCE TO SOLDERING HEAT TEST OF FIXED INDUCTOR

Information Supplied by Client

Client

: Climax Industrial Co., Ltd.

Project

: Testing of Fixed Inductor

Sample Description

Fixed Inductor (Voltage Step-up Coil)

Model No.

: CL3320T-6B/35(10)

Diameter

: 3.3 mm

Height Length : 2.0 mm : 5.5 mm

Width

: 0.85 mm max.

Laboratory Information

Lab. Sample I.D.

ST20464/51B-60B

Date Received

22 April 2002

Date Tested

21 May 2002

Test Method

In accordance with client's specification of fixed inductor: -- Inductors were dipped in a melted solder bath at 280 ± 5°C for

10 ± 0.5 sec up to 0.5mm from attachment surface

Measuring Equipment

Dual Display LCR Meter

Manufacturer : AVO Model No. : B131 Serial No. : 01061088

**Test Frequency** 

1 kHz

#### **Test Results**

rest Results						
	Inductance (mH)		Change in		Specification	
Lab. Sample I.D.	Before Test	After Test	Inductance (%)	Observation	Change in Inductance (%)	Observation
ST20464/51B	6.825	6.707	-1.7			
ST20464/52B	6.723	6.583	-2.1			
ST20464/53B	6.670	6.622	-0.7		< ± 10%	There shall not be case deformation or change in appearance
ST20464/54B	6.461	6.443	-0.3			
ST20464/55B	6.764	6.645	-1.8	No deformation or change in		
ST20464/56B	6.826	6.746	-1.2	appearance		
ST20464/57B	5.478	5.317	-2.9			
ST20464/58B	6.606	6.509	-1.5	]		
ST20464/59B	6.465	6.371	-1.5	]		
ST20464/50B	6.045	6.002	-0.7			

Remarks 1.) The test results relate only to the sample tested.

2.) The test results comply with the requirement of client's specification of fixed inductor.

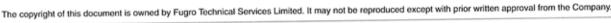
3.) This report is a supplement to test report no. 013715ST20464.

Checked by: <u>Lacculum</u> Date: 27.9.2002 Certified by:

\_\_\_\_ Date : <u>27/9/02</u> nstanlev

Sary Winstanley





MateriaLab Division,

Fugro Development Centre.

5 Lok Yi Street, 17 M.S. Castle Peak Road, Tai Lam, Tuen Mun, N.T., Hong Kong.

Tel Fax : +852-2450 6138

E-mail: matlab@fugro.com.hk

Website: www.fugro.com



Client Ref. Report No.

013715ST20464(1)

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# REPORT ON VIBRATION TEST (LOW FREQUENCY) OF FIXED INDUCTOR

Information Supplied by Client

Client

Climax Industrial Co., Ltd.

Project

Testing of Fixed Inductor

Sample Description

Model No.

Fixed Inductor (Voltage Step-up Coil)

Diameter

: CL3320T-6B/35(10) : 3.3 mm

Height

: 2.0 mm

Length

: 5.5 mm

Width

: 0.85 mm max.

Laboratory Information

Lab. Sample I.D.

ST20464/61B-70B

Date Received Date Tested

22 April 2002

23 July 2002

Test Method

In accordance with client's specification of fixed inductor: --

Motion were applied for 20 min in each of the 3 mutually

perpendicular directions at a frequency of 10-120 Hz with amplitude

of 1.5 mm for a period of 60 sec.

Measuring Equipment

**Dual Display LCR Meter** 

Manufacturer : AVO Model No. : B131 Serial No.: 01061088

Test Frequency

1 kHz

### **Test Results**

	•					
Lab.	Inductar	Inductance (mH)			Specification	
Sample I.D.	I Inductance   Observation		Observation	Change in Inductance (%)	Observation	
ST20464/61B	6.331	6.064	-4.2			There shall not be case deformation or change in appearance
ST20464/62B	5.811	5.784	-0.5		504	
ST20464/63B	5.259	5.223	-0.7			
ST20464/64B	6.800	6.763	-0.5			
ST20464/65B	6.430	6.340	-1.4	No deformation or		
ST20464/66B	6.745	6.668	-1.1	change in appearance	≤ ± 5%	
ST20464/67B	6.085	6.062	-0.4			
ST20464/68B	6.383	6.312	-1.1			
ST20464/69B	6.436	6.422	-0.2			
ST20464/70B	6.416	6.384	-0.5			

Remarks 1.) The test results relate only to the sample tested.

2.) The test results comply with the requirement of client's specification of fixed inductor.

This report is a supplement to test report no. 013715St20464.

Checked by: woo obcome Date: ??

Gary Winstanley



MateriaLab Division,

Fugro Development Centre,

5 Lok Yi Street, 17 M.S. Castle Peak Road, Tai Lam, Tuen Mun, N.T., Hong Kong. Tel : +852-2450 8233 Fax : +852-2450 6138 E-mail : matlab@fugro.com.hk MateriaLab

Client Ref.

: --

Website: www.fugro.com

Report No.

013715ST20464(1)

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# REPORT ON SHOCK TEST OF FIXED INDUCTOR

### Information Supplied by Client

Client

: Climax Industrial Co., Ltd.

Project

Testing of Fixed Inductor

Sample Description

Fixed Inductor (Voltage Step-up Coil)

Model No.

: CL3320T-6B/35(10)

Diameter

: 3.3 mm

Height

: 2.0 mm

Length

: 5.5 mm

Width

: 0.85 mm max.

# **Laboratory Information**

Lab. Sample I.D.

: ST20464/71B-75B

Date Received Date Tested 22 April 2002 23 July 2002

Test Method

In accordance with client's specification of fixed inductor : --

Inductors were dropped 3 times from a height of 1m onto

a wooden board

Inductors soldered on 50g weight jig were dropped 3 times from a

height of 75cm onto a concrete

Measuring Equipment

**Dual Display LCR Meter** 

Manufacturer : AVO Model No. : B131

Serial No.: 01061088

Test Frequency

1 kHz

### **Test Results**

		Inductance (mH)		Change in In	ductance (%)		Specification
Lab. Sample I.D. Befo	Before Test	After Dropped onto Wood	After Dropped onto Concrete	After dropped onto Wood	After Dropped onto Concrete	Observation	
ST20464/71B	6.377	6.369	6.363	-0.1	-0.2	No deformation or change in appearance	There shall not be case deformation or change in appearance
ST20464/72B	6.421	6.419	6.381	0	-0.6		
ST20464/73B	5.496	5.501	5.462	+0.1	-0.6		
ST20464/74B	5.526	5.530	5.499	+0.1	-0.5		
ST20464/75B	6.075	6.072	5.930	0	-2.4		

Remarks 1.) The test results relate only to the sample tested.

2.) The test results **comply** with the requirement of client's specification of fixed inductor.

This report is a supplement to test report no. 013715ST20464.

Checked by : waccleca Date : 27 -9. 2002 Certified by

Date : 27/9/02

DINIV

MateriaLab Division,

Fugro Development Centre,

5 Lok Yi Street, 17 M.S. Castle Peak Road. Tai Lam, Tuen Mun, N.T., Hong Kong.

: +852-2450 8233 Fax : +852-2450 6138 E-mail: matlab@fugro.com.hk

Website: www.fugro.com

MateriaLab

Client Ref. Report No.

013715ST20464(1)

Page 11 11

# REPORT ON SUBSTRATE BENDING TEST OF FIXED INDUCTOR

# Information Supplied by Client

Client

Climax Industrial Co., Ltd.

Project

Sample Description

Testing of Fixed Inductor

Fixed Inductor (Voltage Step-up Coil)

Model No.

: CL3320T-6B/35(10) : 3.3 mm

Diameter Height Length

: 2.0 mm : 5.5 mm

Width

: 0.85 mm max.

# Laboratory Information

Lab. Sample I.D.

ST20464/76B-80B

Date Received Date Tested

22 April 2002

Test Method

23 July 2002

In accordance with client's specification of fixed inductor: --

A load were applied to inductors soldered on a PCB until the PCB was bent to 2mm and then returned back to original position

Measuring Equipment

**Dual Display LCR Meter** 

Manufacturer : AVO Model No. : B131 Serial No.: 01061088

**Test Frequency** 

1 kHz

## **Test Results**

Lab.	Inductar	nce (mH)	Change in Inductance	0	
Sample I.D.	Before Test After Test		(%)	Specification	
ST20464/76B	6.076	6.018	-1.0		
ST20464/77B	5.276	5.232	-0.8		
ST20464/78B	6.897	6.853	-0.6	≤±5%	
ST20464/79B	6.647	6.593	-0.8		
ST20464/80B	5.462	5.340	-2.2		

Remarks:

1.) The test results relate only to the sample tested.

The test results comply with the requirement of client's specification of fixed inductor. 2.)

3.) This report is a supplement to test report no. 013715ST20464.

Checked by : 10 ccle ce Date : 27-9.2002 Certified by :

Gary Winstanley



Date: 27/9/02

