

Ref. No.	ETB160122		
Total pages	5		

TEST REPORT

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Sample Description:

Low permittivity supporting material

Style / Item No.:

LF125/LF225/LF525

Test Category:

Commission Test

Manufacturer:

Guangzhou CHANGEN Electronic

Technology Co., Ltd.

Client:

Guangzhou CHANGEN Electronic

Technology Co., Ltd.

中国赛宝实验室 元器件检测中心 CHINA CEPRETIZABORATORIES CEPREI The Electronic Component Testing Center 田田山

宝()

POINTS FOR ATTENTION

- 1. The Test Report is invalid without Special Seal for Testing or the official seal of Test Center.
- 2. The duplicated report is invalid without Special Seal for Testing or the official seal of Test Center again.
- 3. The Test Report is invalid without signature of the final approval.
- 4. The Test Report is invalid if being altered.
- 5. Any objections must be raised against to Test Center within 15 days since the date the report is received. It will not be taken into consideration beyond this limit.
- 6. Generally, for commission test we are only responsible for the submitted samples.

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E-mail:component@ceprei.com



Sample Description	Low permittivity supporting material	Style / Item No.	LF125/LF225/LF525	
Manufacturer	Guangzhou CHANGEN Electronic Technology Co., Ltd.			
Manufacturer Address	Rm 318,Bldg G5,NO.31,KeFeng Rd, Guangzhou Hi-tech Industrial Development Zone,Guangdong,P.R.China			
Client	Guangzhou CHANGEN Electronic Technology Co., Ltd.			
Client Address	Rm 318,Bldg G5,NO.31,KeFeng Rd, Guangzhou Hi-tech Industrial Development Zone,Guangdong,P.R.China			
Place of sampling: /	Produc	tion Date / Lot: 20	1608	

Sample Quantity:

1Pcs

Sample No.: 1#

Sampling method: Submitted by Guangzhou CHANGEN Electronic Technology Co., Ltd.

Date of Submitting Samples: 2016.08.19

Date of Testing: 2016.08.26~2016.08.26

Qualification in accordance with:

GB/T 1409-2006 Recommended methods for the determination of the permittivity and dielectric dissipation factor of electrical insulating materials at power, audio and radio frequencies including meter wavelengths

Requirements of the Client

Test Item	Relative permittivity
Conclusion	The test result that the samples submitted by Guangzhou CHANGEN Electronic Technology Co., Ltd. refers to the test logbook.

Signature:

Author: Date: 2016.08.30

Approver: Approver: Date: 2016.08.31

(Director/Vice Director)

No.	Test Item	Description	Requirements	Samples/ No.	Accept criterion	Failure	Result
1	Relative permittivity	In accordance with GB/T 1409-2006 and the requirements of the client Oscillator Level:100mV, Frequency:10MHz~300MHz Measure the thickness(t) of sample. Record the measured values at 10MHz, 30MHz, 50MHz, 100MHz,300MHz.	Record the measured values	1pcs/1#		/	/



No.	Description	Model	Cal. Date~Cal. due da
1	RF Impedance/Material Analyzer	E4991A	2016.07.04~2017.07.03
2	Vernier Calliper	0~200mm	2015.12.18~2016.12.17
/	/	/	/
/ironn	nental conditions		
Fie	$Temperature(^{\circ}C)$	RH(%)	Atm. (kPa)
	testing 15~35	45~75	86~106
For	measurement 23 ± 2	50 ± 5	86~106

---END OF THE TEST REPORT---



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TEST LOGBOOK

Sample Description:

Low permittivity

supporting material

Style / Item No.:

LF125/LF225/LF525

Test Category:

Commission Test

Manufacturer:

Guangzhou CHANGEN Electronic

Technology Co., Ltd.

Client:

Guangzhou CHANGEN Electronic

Technology Co., Ltd.







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TEST RECORD

Product name	Guangzhou CHANGEN Electronic Techn	ology Co., Ltd.	Quantity: 1 pcs		
and type	Low permittivity supporting material LF125/LF225/LF525	Group	/		
Test Instrument	E4991A RF Impedance/Material Analyzer	Cal. Date \sim	2016.07.04~2017.07.0		
mstrument	0~200mm Vernier Calliper	Cal. due date	2015.12.18~2016.12.1		
Test Item	Relative Permittivity ϵ_r				
	In accordance with GB/T 1409-2006 and the recoscillator Level:100mV. Frequency:10MHz~300MHz. Measure the thickness(t) of sample. Record the measured values at 10MHz, 30MHz.				
-	Record the measured values				
Sample No.	Test Result See attached figure				
1#					
-					

Tested by: 对是 Date: 为16.08.26 Checked by: 全年 Date: 为160826



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U

1.7 MKR Frequency [42]	*1: er' [U] MKR5	300 MHz	1.24423
MKR Frequency [Hz] 1.6 1 10 M 2 30 M 1.5 3 50 M 1.4 5 300 M 1.3 1 2 1.2 1.2 1.2 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	gr' [U] 1.25762 1.25055 1.24073 1.24392 1.24423		5_
0.7 OSC 100.00 mV START 10 MHz	SAVG OFF	STOP	BIAS OFF

1[#](t=1.85mm)

Tested by: Nate: 2016.08.76 Checked by: 500 Date: 2016.08.76

