

# FRE 福登精密工業股份有限公司

FULL RISE ELECTRONIC CO.,LTD.

No.19-4,Kao Shan Hsia,Kao Shuang Village,Ping Chen City,Taoyuan,Taiwan,R.O.C.

Tel:(886-3)4643715~9 Fax:(886-3)4643720~1 Email: freco@ms3.hinet.net

A4A97011

## TEST REPORT

Item number: E596X-XXX12X

Serial number: LMJ-T-0012-1

Description: STACKED GANG JACK (2X4)

Date: 2001.02.19

### Testing Item & Result:

Contact Resistance: ( STD 50 m MAX )

Unit:m

PIN NO.	1	2	3	4	5	6
Result (Down)	23.85	22.66	24.12	22.95	24.00	22.59
Result (Up)	30.14	31.52	30.38	31.67	30.28	31.45

Insulation Resistance: ( STD 1000 M MIN/500VDC )

PIN NO.	1-2	2-3	3-4	4-5	5-6	1-6
Result (Down)	15T	10T	15T	20T	15T	20T
Result (Up)	10T	15T	15T	15T	20T	20T

Dielectric Withstanding Voltage: ( 1000 VAC/1min )

PIN NO.	1-2	2-3	3-4	4-5	5-6	1-6
Result (Down)	OK	OK	OK	OK	OK	OK
Result (Up)	OK	OK	OK	OK	OK	OK

Durability: ( 750 CYCLES )

Unit:m

PIN NO.	INITIAL	AFTER 250 CYCLES	AFTER 750 CYCLES
1	(DOWN) 23.85 30.14 (Up)	(DOWN) 24.21 30.14 (Up)	(DOWN) 24.76 31.03 (Up)
2	(DOWN) 22.66 31.52 (Up)	(DOWN) 22.76 31.76 (Up)	(DOWN) 23.25 32.21 (Up)
3	(DOWN) 24.12 30.38 (Up)	(DOWN) 24.62 30.23 (Up)	(DOWN) 24.95 30.96 (Up)
4	(DOWN) 22.95 31.67 (Up)	(DOWN) 23.42 31.89 (Up)	(DOWN) 23.52 32.15 (Up)
5	(DOWN) 24.00 30.28 (Up)	(DOWN) 24.27 30.72 (Up)	(DOWN) 24.75 31.03 (Up)
6	(DOWN) 22.59 31.45 (Up)	(DOWN) 22.91 31.76 (Up)	(DOWN) 22.99 32.07 (Up)

Note : i)The value recorded is responsible to the sample only.

ii)Any correction of the value above is invalid.

JT LEE 2001.02.19

**FRE Lab**

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### TEST REPORT

Item number: E596X-XXX12X

Serial number: LMJ-T-0012-2

Description: STACKED GANG JACK (2X4)

Date: 2001.02.19

#### Testing Item & Result:

Capacitance:

(Test between adjacent circuits of unmated connector at 100KHZ)(STD 2 PF MAX)

Unit:PF

PIN NO.	1-2	2-3	3-4	4-5	5-6	1-6
Result (Down)	1.46	1.51	1.54	1.48	1.51	0.92
Result (Up)	1.71	1.80	1.73	1.77	1.76	1.01

No Discontinuity:

(There shall be no discontinuity longer than 1 microsecond during hand vibration period)

PIN NO.	1	2	3	4	5	6
Result (Down)	OK	OK	OK	OK	OK	OK
Result (Up)	OK	OK	OK	OK	OK	OK

Solderability:(5 seconds at 245±5 )

(Plating surface of solder-dipping section shall be covered with smooth solder)

Result (Down)	OK	OK
Result (Up)	OK	OK

Insertion Force:( 2.27 Kg MAX)

Result (Down)	1.21	1.34
Result (Up)	1.34	1.47

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## TEST REPORT

Item number: E596X-XXX12X

Serial number: LMJ-T-0012-3

Description: STACKED GANG JACK (2X4)

Date: 2001.02.19

### Testing Item & Result:

Vibration:

(Frequency:10-55-10HZ/min)

(Amplitude:1.52mm)

(Period:2 hours for each X , Y and Z axis dicections;in total:6 hours)

#### 1. REQUIRMENT:

There shall be no discontinuity longer than 1 microsecond during the test

Result	No discontinuities at 1 microseconds or longer duration
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#### 2. REQUIRMENT:

After the test , Contact Resistance shall be measured.(STD 60 m MAX)

PIN NO.	BEFORE VIBRATION TEST		AFTER VIBRATION TEST	
				Unit:m
1	(DOWN) 24.85	29.83 (Up)	(DOWN) 24.91	30.02 (Up)
2	(DOWN) 22.81	31.27 (Up)	(DOWN) 22.96	31.42 (Up)
3	(DOWN) 24.18	30.03 (Up)	(DOWN) 24.36	30.23 (Up)
4	(DOWN) 22.98	31.46 (Up)	(DOWN) 22.99	31.57 (Up)
5	(DOWN) 24.25	30.15 (Up)	(DOWN) 24.41	30.32 (Up)
6	(DOWN) 22.89	31.38 (Up)	(DOWN) 23.06	31.46 (Up)

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## TEST REPORT

Item number: E596X-XXX12X

Serial number: LMJ-T-0012-4

Description: STACKED GANG JACK (2X4)

Date: 2001.02.19

### Testing Item & Result:

Temperature Life:(250 hours at 85±2 )

REQUIRMENT:After the test,Contact Resistance shall be measured(STD 60 m MAX)  
Unit:m

PIN NO.	BEFORE TEMPERATURE LIFE	AFTER TEMPERATURE LIFE
1	(DOWN) 24.67 29.53 (Up)	(DOWN) 25.03 29.84 (Up)
2	(DOWN) 22.55 31.22 (Up)	(DOWN) 22.96 31.52 (Up)
3	(DOWN) 24.36 29.93 (Up)	(DOWN) 24.76 30.41 (Up)
4	(DOWN) 23.28 31.56 (Up)	(DOWN) 23.69 31.88 (Up)
5	(DOWN) 24.05 29.32 (Up)	(DOWN) 24.32 30.72 (Up)
6	(DOWN) 22.91 31.48 (Up)	(DOWN) 23.23 31.79 (Up)

Salt Spray: (48 hours at 35±2 ,Concentration 5 % in weight)

REQUIRMENT:After the test,Contact Resistance shall be measured(STD 60 m MAX)  
Unit:m

PIN NO.	BEFORE SALT SPRAY	AFTER SALT SPRAY
1	(DOWN) 24.77 29.73 (Up)	(DOWN) 25.91 30.78 (Up)
2	(DOWN) 22.85 31.16 (Up)	(DOWN) 23.41 31.77 (Up)
3	(DOWN) 24.26 29.93 (Up)	(DOWN) 24.89 30.83 (Up)
4	(DOWN) 23.38 31.76 (Up)	(DOWN) 23.99 32.23 (Up)
5	(DOWN) 24.15 29.92 (Up)	(DOWN) 24.73 30.54 (Up)
6	(DOWN) 22.94 31.68 (Up)	(DOWN) 23.46 32.16 (Up)

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### TEST REPORT

Item number: E596X-XXX12X Serial number: LMJ-T-0012-5

Description: STACKED GANG JACK (2X4) Date: 2001.02.19

#### Testing Item & Result:

Humidity: (96 hours at  $40 \pm 2$  , 90 ~ 95 % RH)

1.REQUIRMENT:Contact Resistance(STD 60 m MAX)

Unit:m

PIN NO.	BEFORE HUMIDITY	AFTER HUMIDITY
1	(DOWN) 24.45 29.73 (Up)	(DOWN) 25.12 30.24 (Up)
2	(DOWN) 22.85 31.16 (Up)	(DOWN) 22.31 31.47 (Up)
3	(DOWN) 24.26 29.93 (Up)	(DOWN) 24.57 30.32 (Up)
4	(DOWN) 23.05 31.76 (Up)	(DOWN) 23.42 31.86 (Up)
5	(DOWN) 24.15 29.92 (Up)	(DOWN) 24.63 30.22 (Up)
6	(DOWN) 22.94 31.68 (Up)	(DOWN) 23.11 31.96 (Up)

2.REQUIRMENT:Insulation Resistance(STD 100M MIN)

PIN NO.	1-2	2-3	3-4	4-5	5-6	1-6
Result (Down)	10T	8T	12T	12T	7T	15T
Result (Up)	5T	7	5T	8T	10T	15T

3. REQUIRMENT:Capacitance(STD 10PF MAX)

Unit:PF

PIN NO.	1-2	2-3	3-4	4-5	5-6	1-6
Result (Down)	1.61	1.66	1.64	1.68	1.67	1.10
Result (Up)	1.91	1.98	1.93	1.89	1.95	1.21

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## TEST REPORT

Item number: E596X-XXX12X

Serial number: LMJ-T-0012-6

Description: STACKED GANG JACK (2X4)

Date: 2001.02.19

### Testing Item & Result:

Cold: (250 hours at  $-40 \pm 3$  )

REQUIREMENT: Contact Resistance (STD 60 m MAX)

Unit: m

PIN NO.	BEFORE COLD	AFTER COLD
1	(DOWN) 24.37 29.95 (Up)	(DOWN) 24.98 31.22 (Up)
2	(DOWN) 22.28 31.23 (Up)	(DOWN) 22.76 31.62 (Up)
3	(DOWN) 24.42 29.51 (Up)	(DOWN) 24.87 30.43 (Up)
4	(DOWN) 23.26 31.43 (Up)	(DOWN) 23.69 31.98 (Up)
5	(DOWN) 24.25 29.62 (Up)	(DOWN) 24.63 30.41 (Up)
6	(DOWN) 22.74 31.38 (Up)	(DOWN) 23.16 31.43 (Up)

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