

Mirror Mezz Current Rating Test



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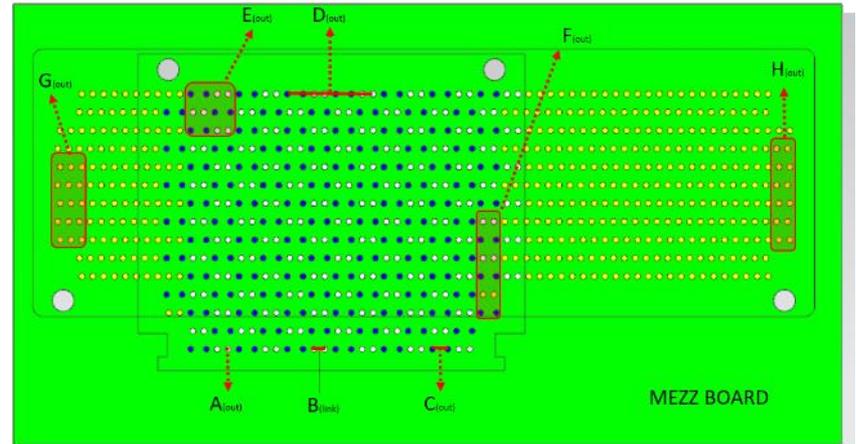
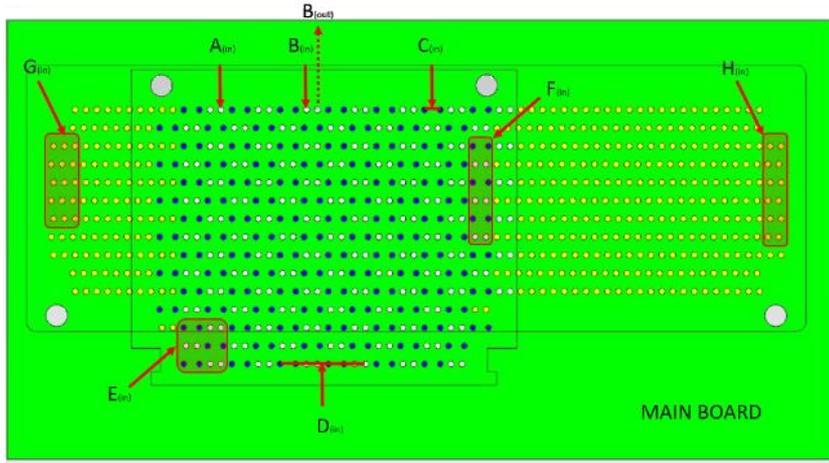


2 oz Copper Thickness

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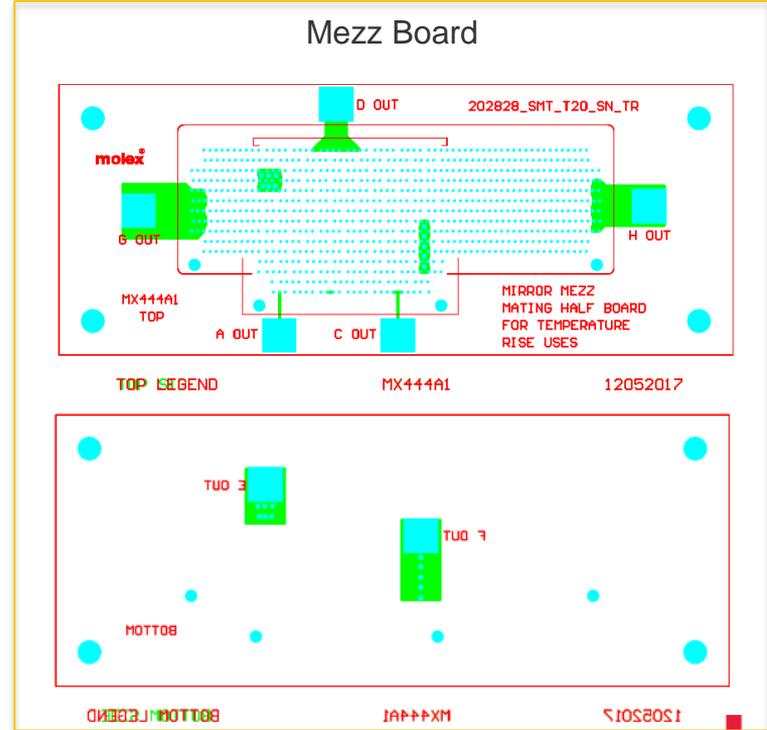
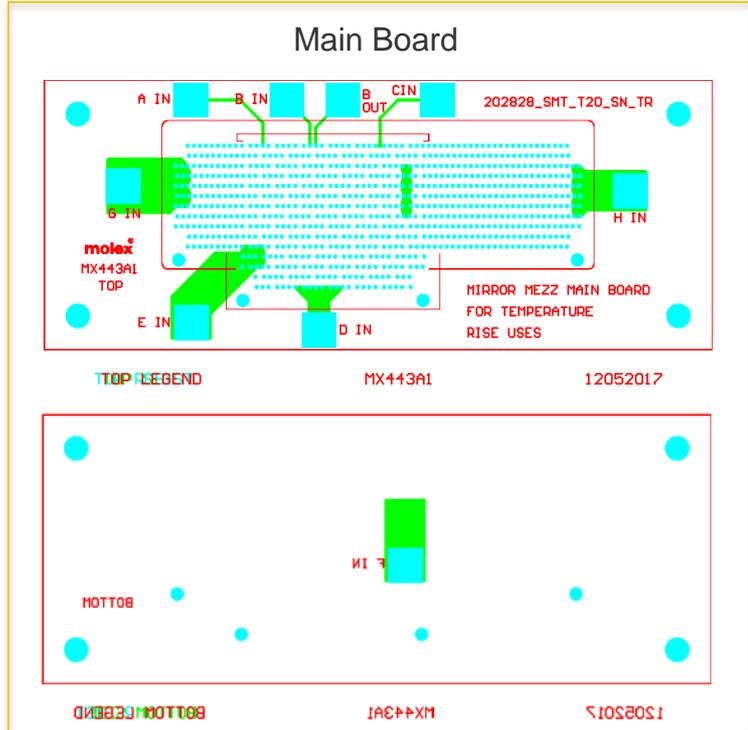
Set-up

- Test Environment: 24+/- 3 °C ; 80%RH Max
- Spec: 30 °C Max. above ambient



Set-up

- Actual test board design :



Test Result

Circuitry	Powered Pin Count	Type	Total Current	Current Per Pin	Recommend Current Rating
A	1x ckt (SIG)	Stand-alone	4.3A	4.3A	2.8A
B	2x ckt (SIG)	Linked in Series	4.0A	4.0A	2.8A
C	2x ckt (GND)	Parallel	5.0A	2.5A	1.7A
D	8x ckt (4x SIG + 2x GND)	Parallel	17.0A	2.1A	1.2A
E	12x ckt (6x SIG + 3x GND)	Parallel	21.5A	1.8A	1.2A
F	12x ckt (6x SIG + 3x GND)	Parallel	23.0A	1.9A	1.2A
G	15x single end	Parallel	22.5A	1.5A	1.2A
H	12x single end	Parallel	20.4A	1.7A	1.2A
G'	15x single end	Parallel	27.95	1.8A	1.2A
H'	12x single end	Parallel	26.66	2.2A	1.2A

- Recommend current rating is 70% of measured value, base on 2OZ copper trace.
- 30% reduction includes measurement variation due to thermal couple placement, and copper land area difference.
- Current Rating Spec: 1.2A for 2oz copper application for both 2.5 & 5.5mm height.



1 oz Copper Thickness

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Set-up

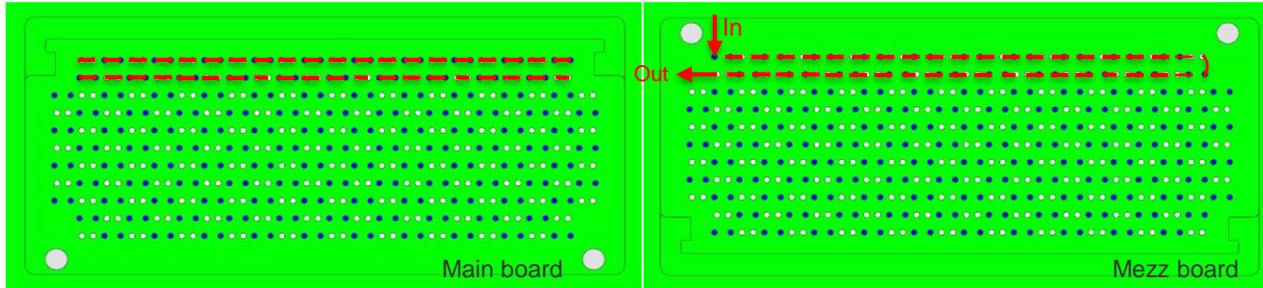
- Spec: 30 °C Max. above ambient
- Using LLCR board to link signal pins in series.
 - Consider it as a worst case condition as the daisy chain trace width is only 0.15mm.

Set-up

- Test sample:

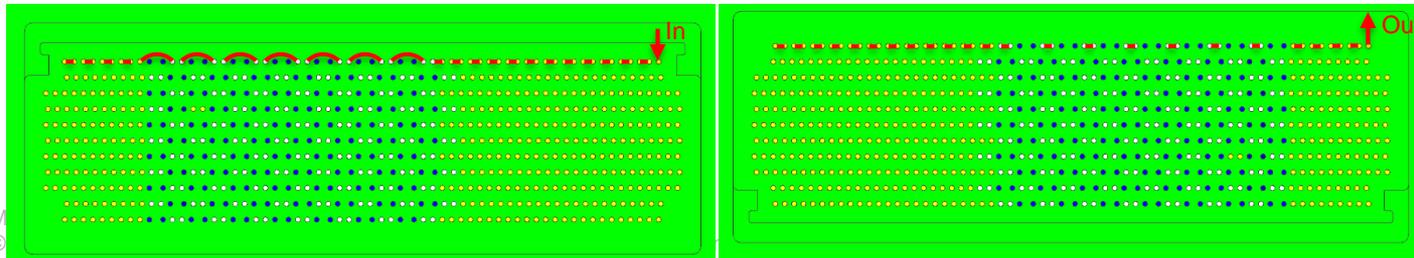
- 202828-1110 (2.5mm) :

- To link signal pins in two rows in series. 40 pins per row, 80 pins in total.



- 203456-0003 (5.5mm) :

- To link signal pins of Row L, 47 pins in total.



Test Result

Sample	Powered Pin Count	Type	Current Per Pin	Recommend Current Rating
2.5mm 2028281110	80x ckt (SIG)	Linked in Series	1.2A	0.75A
5.5mm 2034560003	47x ckt (SIG)	Linked in Series	1.6A	0.75A

- Recommend current rating is less than 70% of measured value
- 30% minimum reduction includes measurement variation due to thermal couple placement, and copper land area difference.
- Current Rating Spec: 0.75A for 1oz copper application

Summary

- Current Rating Spec:
 - 1.2A for 2oz copper application for both 2.5 & 5.5mm height.
 - 0.75A for 1oz copper application for both 2.5 & 5.5mm height.