Daisy Chain Tutorial in 3 Minutes

Let's Learn Daisy Chain

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\[ \sum R_n = \text{Resistance metal} \]

Daisy chain is equivalent to a short circuit. The resistance value is near zero ohm.

Sum of \(R_1 + R_2 + R_3 \ldots + R_n\) measured at the Test Points (T1~T2) is only the resistance of the solder, lead frame and bonding wires. (Cu, Au, Ag, Al, Sn, etc).
Example of Daisy Chain Test Vehicle

A daisy chain device is soldered to a daisy chain circuit board (known as a "Test Vehicle"). The result is a short circuit.

You can measure near zero ohms between T1 and T2 with a simple ohm meter.

If the circuit is broken, then the resistance will become an open circuit.

0 Ω @ test points
Daisy Chain Applications

"Go" / "No-Go" Continuity Test

"Go" = Good. The daisy chain device is connected to a "Test Vehicle" board.

"No-Go" = Bad. Problem such as an open circuit. Resistance will significantly rise (infinite).

Daisy chain is an excellent tool to measure process improvements:

1. Failure analysis
2. Drop & shock tests
3. Underfil comparision
4. Life cycle testing -40°C to +125°C
5. Setting reflow temperature profiles
6. Checking for voids in solder paste, etc

Add your ideas here
Components with Daisy Chain

Daisy chain is available in a wide range of plastic and ceramic packages, as well as die:
QFP, QFN, PLCC, TSOP, SSOP, TSSOP, SOIC, BGA, CSP, WLP, FLAT PACK, LCC, CERQUAD, CCGA, etc.
Daisy chain test is complete.

 Grade A+

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