

# DOE Analysis: Doe Design

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DOE Design Table Design of Experiments (DOE) - Full Factorial Design Design Structure All factors are treated as discrete/categorical: Transceiver Manufacturer: 10 discrete levels Rack Unit: 42 discrete levels (integer values: 1 through 42) Fan Speed Range: 2 discrete levels (L=Low, H=High) Total Design Combinations: 840 factorial runs Response Variable: Interface Temperature Model Terms: Main effects + 2-way and 3-way interactions Design Table Showing all 840 runs. Each row represents one test condition. Run Transceiver\_Manufacturer Rack\_Unit Fan\_Speed\_Range 1 AOI 1 L 2 AOI 1 H 3 AOI 2 L 4 AOI 2 H 5 AOI 3 L 6 AOI 3 H 7 AOI 4 L 8 AOI 4 H 9 AOI 5 L 10 AOI 5 H 11 AOI 6 L 12 AOI 6 H 13 AOI 7 L 14 AOI 7 H 15 AOI 8 L 16 AOI 8 H 17 AOI 9 L 18 AOI 9 H 19 AOI 10 L 20 AOI 10 H 21 AOI 11 L 22 AOI 11 H 23 AOI 12 L 24 AOI 12 H 25 AOI 13 L 26 AOI 13 H 27 AOI 14 L 28 AOI 14 H 29 AOI 15 L 30 AOI 15 H 31 AOI 16 L 32 AOI 16 H 33 AOI 17 L 34 AOI 17 H 35 AOI 18 L 36 AOI 18 H 37 AOI 19 L 38 AOI 19 H 39 AOI 20 L 40 AOI 20 H 41 AOI 21 L 42 AOI 21 H 43 AOI 22 L 44 AOI 22 H 45 AOI 23 L 46 AOI 23 H 47 AOI 24 L 48 AOI 24 H 49 AOI 25 L 50 AOI 25 H 51 AOI 26 L 52 AOI 26 H 53 AOI 27 L 54 AOI 27 H 55 AOI 28 L 56 AOI 28 H 57 AOI 29 L 58 AOI 29 H 59 AOI 30 L 60 AOI 30 H 61 AOI 31 L 62 AOI 31 H 63 AOI 32 L 64 AOI 32 H 65 AOI 33 L 66 AOI 33 H 67 AOI 34 L 68 AOI 34 H 69 AOI 35 L 70 AOI 35 H 71 AOI 36 L 72 AOI 36 H 73 AOI 37 L 74 AOI 37 H 75 AOI 38 L 76 AOI 38 H 77 AOI 39 L 78 AOI 39 H 79 AOI 40 L 80 AOI 40 H 81 AOI 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