**For Preliminary Stack-ups, the following information (minimum) is required:**

1. Part Number: amINO v1.0
2. Layer Count: 6
3. Material Type: FR4
4. Overall Board Thickness & Tolerance (mils) Copper Weight for inners & outers (oz): 31mil +/- 10%; 1oz inners and outers
5. Impedance Required? Yes If yes, fill out impedance table below:
6. Min trace & space used for designing: 5mil / 5mil

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IMPEDANCE TABLE | | | | | | |
| LAYER (S) | TRACE WIDTH (MILS) | SPACING (MILS) | TYPE (S) | OHM VALUE | TOLERANCE (%) | REF LAYER (S) |
| 1 | TBD | N/A | SE, COATED | 50 | 10 | 2 |
| 1 | TBD | TBD | DIFF, COATED | 90 | 10 | 2 |
| 3 | TBD | TBD | SE | 50 | 10 | 2, 4 |
| 4 | TBD | TBD | SE | 50 | 10 | 5, 3 |
| 6 | TBD | N/A | SE, COATED | 50 | 10 | 5 |
| 6 | TBD | TBD | DIFF, COATED | 90 | 10 | 5 |
| Types SE = SINGLE ENDED CP= COPLANAR DIFF= DIFFERENTIAL PAIR COATED= COVERED WITH MASK UNCOATED= NO MASK | | | | | | |

1. Customer Contact Information: First and Last Name, Phone (Office or Cell) and Email Address.

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**Preliminary Stack-Ups**: Created with limited data (ie. no data) to help customer with design or impedance inquiries, material availability, board thickness etc. for potential order. Not to be included with actual order, may use for reference only.

**Proposed Stack-Ups**: Alternative stack up sent to customer when the info/provided does not accommodate a feasible stack up. Do not use this stack-up unless this has been approved by the customer.

**Approved Stack-Ups**: When the customer decides to use the preliminary/proposed stack-up for an actual order (provided tool#) then it will be Sales’ responsibility to include the stack-up and also note on the SORF to use approved stack-up. This job like all new jobs will have to be validated to make sure the stack-up complies with the final data provided. If the job has not been validated due to off shift, it is the planner’s responsibility to make sure the final data and the approved stack-up complies with one another.

**Sending final stack-ups to the customer after planning/cam:** This is the planner’s responsibility to send the final stack-up to the customer for any changes made in difference to customer’s requirements, or approved stack-ups prior to planning.