STACKUP CROSSECTION - 607-1G110-1000-A00.pdf

NOTES:
1. UNLESS OTHERWISE SPECIFIED ON THE 606 FAB DRAWING: WHERE GOLD EDGE FINGERS EXIST, SPEC THICKNESS APPLIES ONLY TO THE GOLD FINGER REGION, AND DOES NOT INCLUDE SOLDERMASK.
2. STRIPLINE LAYERS MAY BE USED FOR PLANE REFERENCES (REF). LAYERS WITHOUT TRACES SHOULD BE CONSIDERED PLANES.
3. *DESIGN USES TRACE WIDTHS WITH VARIATION OF +/- 1um COMPARED TO TARGET WIDTH. CONSIDER IMPEDANCE CONTROLLED BASED ON TARGET WIDTH.
4. DK VALUES: IMPEDANCE CALCULATIONS ASSUME A DK VALUE BASED ON THE DISTRIBUTION OF MATERIALS AVAILABLE. THE FABRICATOR IS ALLOWED TO ADJUST TRACE WIDTHS +/- 20% FOR NOMINAL LINE WIDTHS OF >0.127mm or +/-0.0254mm FOR TRACE WIDTHS <0.127mm TO COMPENSATE FOR THE Dk VALUE OF THE ACTUAL MATERIAL USED IN THE STACK-UP.
5. MATERIAL: HALOGEN FREE.

Spec Thickness:	1.575
Tolerance:	+0.15/-0.15

Name	Negative Artwork	Layer Usage	Material	Thickness
			Air	
			Soldermask	0.018
TOP		Signal Layer	Copper .5oz (Plated)	0.043
			Prepreg 0.0027 1080	0.069
L2		Plane Layer	Copper 1oz	0.03
			filler 0.051	1.295
L3		Plane Layer	Copper 1oz	0.03
			Prepreg 0.0027 1080	0.069
BOTTOM		Signal Layer	Copper .5oz (Plated)	0.043
			Soldermask	0.018
			Air	

LEGEND:

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(Impedance Tolerance = +/- 10% unless otherwise noted)

Single Ended	SEZ	LW	Ref(above)	Ref(below)
TOP	50.0	0.112		L2
BOTTOM	50.0	0.112	L3	

Differential (Edge)	DEZ	SEZ	LW	LineGap	NeckLW	NeckLineGap	Ref(above)	Ref(below)
TOP	80.0		0.12	0.101				L2
TOP	85.0		0.106	0.102				L2
TOP	95.0		0.102	0.179				L2
BOTTOM	80.0		0.12	0.101			L3	
BOTTOM	85.0		0.106	0.102			L3	
BOTTOM	95.0		0.102	0.179			L3	

LEGEND:

SEZ = Single Ended Impedance
DEZ = Differential Edge Coupled Impedance (pair on one layer)
DBZ = Differential Broadside Coupled Impedance (pair on two layers)

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