

STACKUP CROSECTION - 607-1G210-1000-B00.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
TOP	<input type="checkbox"/>	Signal Layer	Air	
			Soldermask	0.018
			Copper .5oz (Plated)	0.043
L2	<input type="checkbox"/>	Plane Layer	EM370(5)_Prepreg_0.0027_1080	0.069
			Copper 1oz	0.03
			EM370(5)_0.003_1086	0.076
L3	<input type="checkbox"/>	Signal Layer	Copper 1oz	0.03
			EM370(5)_Filler_0.042	1.067
L4	<input type="checkbox"/>	Signal Layer	Copper 1oz	0.03
			EM370(5)_0.003_1086	0.076
L5	<input type="checkbox"/>	Plane Layer	Copper 1oz	0.03
			EM370(5)_Prepreg_0.0027_1080	0.069
BOTTOM	<input type="checkbox"/>	Signal Layer	Copper .5oz (Plated)	0.043
			Soldermask	0.018
			Air	

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LEGEND:



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Drawing units: mm

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STACKUP IMPEDANCES - 607-1G210-1000-B00.pdf

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

Single Ended	SEZ	LW	Ref(above)	Ref(below)
TOP	45.0	0.136		L2
TOP	50.0	0.111		L2
L3	45.0	0.116	L2	L5
L3	50.0	0.089	L2	L5
L4	45.0	0.116	L2	L5
L4	50.0	0.089	L2	L5
BOTTOM	45.0	0.136	L5	
BOTTOM	50.0	0.111	L5	

Differential (Edge)	DEZ	SEZ	LW	LineGap	NeckLW	NeckLineGap	Ref(above)	Ref(below)
TOP	85.0		0.105	0.1				L2
TOP	95.0		0.101	0.173				L2
L3	85.0		0.083	0.121			L2	L5
L4	85.0		0.083	0.121			L2	L5
L4	95.0		0.08	0.203			L2	L5
BOTTOM	85.0		0.105	0.1			L5	
BOTTOM	95.0		0.101	0.173			L5	

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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