

# STACKUP CROSSECTION - 607-13509-1000-A01.pdf

- NOTES: 1. UNLESS OTHERWISE SPECIFIED ON THE 606 FAB DRAWING: WHERE GOLD EDGE FINGERS EXIST, TARGET 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. MULTI PLY CORE IS DENOTED BY x2, x3 IN THE MATERIAL NAME, e.g. EM-890K 0.006 1078(rc63.5)x2 Core
6. MATERIAL: HALOGEN FREE.

Target Thickness: 1.57  
Tolerance: +0.15/-0.15

Name	Negative Artwork	Layer Usage	Material	Thickness
			Air	
			Soldermask	0.018
TOP	<input type="checkbox"/>	Signal Layer	Copper 43um (Plated)	0.043
			EM-370(5) 0.0027 1080x1 Prepreg	0.069
L2	<input type="checkbox"/>	Plane Layer	Copper 1oz	0.03
			EM-370(5) 0.003 1086x1 Core	0.076
L3	<input type="checkbox"/>	Signal Layer	Copper 1oz	0.03
			EM370(5)_PP + Core + PP_0.042	1.067
L4	<input type="checkbox"/>	Signal Layer	Copper 1oz	0.03
			EM-370(5) 0.003 1086x1 Core	0.076
L5	<input type="checkbox"/>	Plane Layer	Copper 1oz	0.03
			EM-370(5) 0.0027 1080x1 Prepreg	0.069
BOTTOM	<input type="checkbox"/>	Signal Layer	Copper 43um (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 - 607-13509-1000-A01.pdf

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

Single Ended	SEZ	LW	Ref(above)	Ref(below)
TOP	50.0	0.102		L2
L3	50.0	0.089	L2	L5
L4	50.0	0.089	L2	L5
BOTTOM	50.0	0.102	L5	

Differential (Edge)	DEZ	SEZ	LW	LineGap	NeckLW	NeckLineGap	Ref(above)	Ref(below)
TOP	85.0		0.101	0.118				L2
TOP	90.0		0.103	0.16				L2
TOP	95.0		0.1	0.221				L2
L4	90.0		0.08	0.15			L2	L5
BOTTOM	85.0		0.101	0.118			L5	
BOTTOM	90.0		0.103	0.16			L5	
BOTTOM	95.0		0.1	0.221			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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