



Revised Stack-up -- Added 100 ohm "single-ended" impedance (Reference Layer 3)

Texas Instruments

DAC5682Z EVM Rev B1 (Impedance Model)

FR-4 170 Tg

Er (Dielectric Constant) = 4.3

Overall Thickness = **See Below** +/- 10%

	<u>Dielectric</u>		<u>Copper</u>	<u>Target Impedance</u>	<u>Line / Space</u>	<u>Calc</u>
	-----	Signal	1.5 oz	{ 50 ohms +/- 5% 100 Differential +/- 5% *****100 ohms +/- 5% *****Reference layer 3	.020	50.0
	.012	Plane	1 oz			.005 / .0045
	.007					
	-----	Signal	1 oz	100 Differential +/- 5%	.005 / .010	99.7
	.0074					
	-----	Plane	1 oz			
	.003					
	-----	Plane	1 oz			
	.0038					
	-----	Signal	1 oz	N/A	N/A	N/A
	.003					
	-----	Plane	1 oz			
	.0074					
	-----	Signal	1 oz	100 Differential +/- 5%	.005 / .010	99.7
	.007					
	-----	Plane	1 oz			
	.012					
	-----	Signal	1.5 oz	{ 50 ohms +/- 5% 100 Differential +/- 5%	.020	50.0
						.005 / .0045
	.078	Final Thickness (After Plating)				

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Important:

- 1) Approval of this stack-up supersedes fabrication drawing requirements.
- 2) Some laminates require special order and additional lead time.
 Please check with MEI sales personnel and verify material availability.