

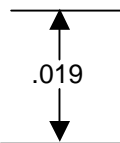

Revised Stack-up -- Added 100 ohm "single-ended" impedance (Reference Layer 3)

Texas Instruments

DAC5682Z EVM Rev B1 (Impedance Model)
Overall Thickness = **See Below** +/- 10%

FR-4 170 Tg

Er (Dielectric Constant) = 4.3

	<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	99.5
	<div>.007</div>				.0055	99.6
	-----	Signal	1 oz		100 Differential +/- 5%	.005 / .010
	.0074	Plane	1 oz			
	<div>.003</div>					
	-----	Plane	1 oz			
	.0038	Signal	1 oz	N/A	N/A	N/A
	<div>.003</div>	Plane	1 oz			
	-----	Plane	1 oz			
.0074	Signal	1 oz	100 Differential +/- 5%	.005 / .010	99.7	
<div>.007</div>	Plane	1 oz				
-----	Plane	1 oz				
.012	Signal	1.5 oz	{ 50 ohms +/- 5% 100 Differential +/- 5%	.020	50.0	
-----	Signal	1.5 oz		.005 / .0045	99.5	
<div>.078</div> Final Thickness (After Plating)						

James Rader

Inside Sales Engineer

(714) 974-8590 x1749

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.**