

板材信息（参考）

板材 FR4		Typical (mil)	Unit
Solder Mask		0.7	mil
Copper Plated	0.5 oz	0.7	mil
Copper foil	0.5 oz	0.7	mil
PP	6.6mil	6.6	mil
Copper foil	1 oz	1.4	mil
Core (7628*5)	12 mil	12	mil
Copper foil	1 oz	1.4	mil
PP	6.6mil	6.6	mil
Copper foil	0.5 oz	0.7	mil
Copper Plated	0.5 oz	0.7	mil
Solder Mask		0.7	mil
Total Board Thinkness		32.200	mil
Total Board Thinkness		0.818	mm

阻抗线宽（参考）

单端走线				差分走线			
线宽(mil)	所在/参考层	ohm 值	仿真值	线宽 / 线距(mil)	所在/参考层	ohm 值	仿真值
11(gap14mil)	L1/L2	50	50.02	6.5/5(gap5mil)	L1/L2	90	90.78
				6.5/5(gap5mil)	L4/L3	90	90.78

Polar Si9000 PCB Transmission Line Field Solver - [H:\GD\_Projects\GD32101\_doc\HDK\50R\_4L0.8MM\_module.Si9]

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Parameter Entry Units: ☒ Mils ☐ Inches ☐ Microns ☐ Millimetres

**Coated Coplanar Waveguide With Ground 1B**

Notes: Add your comments here

Interface Style: ☐ Standard ☒ Extended

G.S. Convergence: ☒ Fine (Slower) ☐ Coarse (Faster)

Lossless Calculation | Frequency Dependent Calculation

Parameter	Value	Tolerance	Minimum	Maximum	Calculate	
Substrate 1 Height	H1	6.6000 +/-	0.0000	6.6000	6.6000	Calculate
Substrate 1 Dielectric	Er1	4.2000 +/-	0.0000	4.2000	4.2000	Calculate
Lower Trace Width	W1	11.0000 +/-	0.0000	11.0000	11.0000	Calculate
Upper Trace Width	W2	10.5000 +/-	0.0000	10.5000	10.5000	Calculate
Ground Strip Separation	D1	14.0000 +/-	0.0000	14.0000	14.0000	Calculate
Trace Thickness	T1	1.4000 +/-	0.0000	1.4000	1.4000	Calculate
Coating Above Substrate	C1	0.7000 +/-	0.0000	0.7000	0.7000	Calculate
Coating Above Trace	C2	0.7000 +/-	0.0000	0.7000	0.7000	Calculate
Coating Dielectric	CEr	3.8000 +/-	0.0000	3.8000	3.8000	Calculate
Impedance	Zo	50.02	50.02	50.02	50.02	Calculate

Coated Coplanar Single-Ended Structures

Polar Si9000 PCB Transmission Line Field Solver - [H:\GD\_Projects\GD32101\_doc\HDK\50R\_4L0.8MM\_module.Si9]

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Parameter Entry Units: ☒ Mils ☐ Inches ☐ Microns ☐ Millimetres

**Diff Coated Coplanar Waveguide With Ground 1B**

Notes: Add your comments here

Interface Style: ☐ Standard ☒ Extended

G.S. Convergence: ☒ Fine (Slower) ☐ Coarse (Faster)

Lossless Calculation | Frequency Dependent Calculation

Parameter	Value	Tolerance	Minimum	Maximum	Calculate	
Substrate 1 Height	H1	6.6000 +/-	0.0000	6.6000	6.6000	Calculate
Substrate 1 Dielectric	Er1	4.2000 +/-	0.0000	4.2000	4.2000	Calculate
Lower Trace Width	W1	6.5000 +/-	0.0000	6.5000	6.5000	Calculate
Upper Trace Width	W2	6.5000 +/-	0.0000	6.5000	6.5000	Calculate
Trace Separation	S1	5.0000 +/-	0.0000	5.0000	5.0000	Calculate
Ground Strip Separation	D1	5.0000 +/-	0.0000	5.0000	5.0000	Calculate
Trace Thickness	T1	1.4000 +/-	0.0000	1.4000	1.4000	Calculate
Coating Above Substrate	C1	0.7000 +/-	0.0000	0.7000	0.7000	Calculate
Coating Above Trace	C2	0.7000 +/-	0.0000	0.7000	0.7000	Calculate
Coating Between Traces	C3	0.7000 +/-	0.0000	0.7000	0.7000	Calculate
Coating Dielectric	CEr	3.8000 +/-	0.0000	3.8000	3.8000	Calculate
Differential Impedance	Zdiff	90.78	90.78	90.78	90.78	Calculate

Coated Coplanar Differential Structures