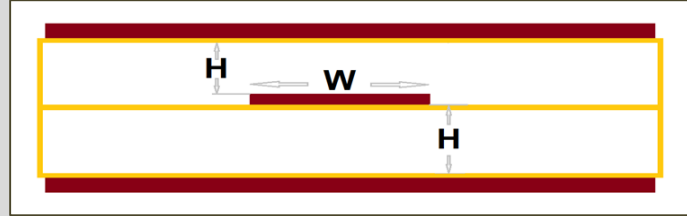


Thickness H = 4.0 MILs							
Width W = 3.0 MILs		Width W = 3.5 MILs		Width W = 4.0 MILs		Width W = 4.5 MILs	
Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)
3.1		3.1	54.0	3.1	50.8	3.1	47.9
3.2		3.2	53.15	3.2	50.0	3.2	47.2
3.3		3.3	52.3	3.3	49.2	3.3	46.45
3.4	54.9	3.4	51.5	3.4	48.5	3.4	45.8
3.5	54.1	3.5	50.8	3.5	47.8	3.5	45.1
3.6	53.35	3.6	50.1	3.6	47.1	3.6	
3.7	52.6	3.7	49.4	3.7	46.5	3.7	
3.8	51.9	3.8	48.75	3.8	45.9	3.8	
3.9	51.25	3.9	48.1	3.9	45.3	3.9	
4.0	50.6	4.0	47.5	4.0		4.0	
4.1	50.0	4.1	46.95	4.1		4.1	
4.2	49.4	4.2	46.4	4.2		4.2	
4.3	48.8	4.3	45.85	4.3		4.3	
4.4	48.25	4.4	45.3	4.4		4.4	
4.5	47.7	4.5		4.5		4.5	
4.6	47.2	4.6		4.6		4.6	
4.7	46.7	4.7		4.7		4.7	
4.8	46.2	4.8		4.8		4.8	
4.9	45.75	4.9		4.9		4.9	



Copper thickness 0.67 MILs / 0.5 OZ
 FR4 hickness (H) 4.0/8.0 MILs. Stripline width (W) 3.0/9.5 MILs
 Tolerance up to: +/- 5% 47.5/52.5 Ohms (Black) and +/-10% 45/55 Ohms (Red)

Thickness H = 5.0 MILs											
Width W = 3.0 MILs		Width W = 3.5 MILs		Width W = 4.0 MILs		Width W = 4.5 MILs		Width W = 5.0 MILs		Width W = 5.5 MILs	
Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)
3.1		3.1		3.1		3.1	54.3	3.1	51.65	3.1	49.3
3.2		3.2		3.2		3.2	53.4	3.2	50.8	3.2	48.5
3.3		3.3		3.3		3.3	52.6	3.3	50	3.3	47.75
3.4		3.4		3.4	54.6	3.4	51.8	3.4	49.3	3.4	47.05
3.5		3.5		3.5	53.8	3.5	51.1	3.5	48.6	3.5	46.4
3.6		3.6		3.6	53.05	3.6	50.35	3.6	47.9	3.6	45.7
3.7		3.7		3.7	52.3	3.7	49.7	3.7	47.3	3.7	45.1
3.8		3.8	54.4	3.8	51.6	3.8	49	3.8	46.65	3.8	
3.9		3.9	53.7	3.9	50.1	3.9	48.4	3.9	46.05	3.9	
4.0		4.0	53.05	4.0	50.3	4.0	47.8	4.0	45.5	4.0	
4.1		4.1	52.4	4.1	49.7	4.1	47.2	4.1		4.1	
4.2		4.2	51.75	4.2	49.1	4.2	46.6	4.2		4.2	
4.3	54.5	4.3	51.15	4.3	48.5	4.3	46.1	4.3		4.3	
4.4	53.9	4.4	50.55	4.4	48	4.4	45.55	4.4		4.4	
4.5	53.3	4.5	50	4.5	47.45	4.5	45.05	4.5		4.5	
4.6	52.7	4.6	49.45	4.6	47.0	4.6		4.6		4.6	
4.7	52.1	4.7	48.9	4.7	46.4	4.7		4.7		4.7	
4.8	51.6	4.8	48.4	4.8	45.95	4.8		4.8		4.8	
4.9	51.05	4.9	47.9	4.9	45.5	4.9		4.9		4.9	

Thickness H = 6.0 MILs															
Width W = 3.5MILs		Width W = 4.0MILs		Width W = 4.5MILs		Width W = 5.0 MILs		Width W = 5.5 MILs		Width W = 6.0 MILs		Width W = 6.5 MILs		Width W = 7.0 MILs	
Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)
3.1		3.1		3.1		3.1		3.1	54.5	3.1	52.3	3.1	50.2	3.1	48.3
3.2		3.2		3.2		3.2		3.2	53.65	3.2	51.45	3.2	49.4	3.2	47.6
3.3		3.3		3.3		3.3		3.3	52.8	3.3	50.65	3.3	48.7	3.3	46.85
3.4		3.4		3.4		3.4	54.35	3.4	52	3.4	49.9	3.4	48	3.4	46.15
3.5		3.5		3.5		3.5	53.6	3.5	51.3	3.5	49.2	3.5	47.3	3.5	45.5
3.6		3.6		3.6		3.6	52.8	3.6	50.6	3.6	48.5	3.6	46.6	3.6	
3.7		3.7		3.7	54.4	3.7	52.1	3.7	49.9	3.7	47.85	3.7	46.0	3.7	
3.8		3.8		3.8	53.7	3.8	51.4	3.8	49.2	3.8	47.2	3.8	45.4	3.8	
3.9		3.9		3.9	53.0	3.9	50.75	3.9	48.6	3.9	46.6	3.9		3.9	
4.0		4.0	54.9	4.0	52.3	4.0	50.1	4.0	48	4.0	46.0	4.0		4.0	
4.1		4.1	54.2	4.1	51.7	4.1	49.5	4.1	47.4	4.1	45.45	4.1		4.1	
4.2		4.2	53.6	4.2	51	4.2	48.9	4.2	46.8	4.2		4.2		4.2	
4.3		4.3	52.95	4.3	50.45	4.3	48.3	4.3	46.3	4.3		4.3		4.3	
4.4		4.4	52.35	4.4	49.9	4.4	47.75	4.4	45.75	4.4		4.4		4.4	
4.5	54.75	4.5	51.75	4.5	49.3	4.5	47.25	4.5	45.25	4.5		4.5		4.5	
4.6	54.1	4.6	51.2	4.6	48.8	4.6	46.7	4.6		4.6		4.6		4.6	
4.7	53.55	4.7	50.65	4.7	48.25	4.7	46.2	4.7		4.7		4.7		4.7	
4.8	53.0	4.8	50.1	4.8	47.75	4.8	45.75	4.8		4.8		4.8		4.8	
4.9	52.45	4.9	49.6	4.9	47.25	4.9	45.25	4.9		4.9		4.9		4.9	

Thickness H = 7.0 MILs															
Width W = 4.5 MILs		Width W = 5.0 MILs		Width W = 5.5 MILs		Width W = 6.0 MILs		Width W = 6.5 MILs		Width W = 7.0 MILs		Width W = 7.5 MILs		Width W = 8.0 MILs	
Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)
3.1		3.1		3.1		3.1		3.1	54.7	3.1	52.75	3.1	50.1	3.1	49.3
3.2		3.2		3.2		3.2		3.2	53.8	3.2	51.9	3.2	50.15	3.2	48.5
3.3		3.3		3.3		3.3	55.0	3.3	53.0	3.3	51.1	3.3	49.4	3.3	47.75
3.4		3.4		3.4		3.4	54.2	3.4	52.2	3.4	50.4	3.4	48.65	3.4	47.05
3.5		3.5		3.5		3.5	53.4	3.5	51.45	3.5	49.65	3.5	48	3.5	46.4
3.6		3.6		3.6	54.7	3.6	52.7	3.6	50.75	3.6	48.95	3.6	47.3	3.6	45.75
3.7		3.7		3.7	53.95	3.7	52	3.7	50	3.7	48.3	3.7	46.65	3.7	45.1
3.8		3.8		3.8	53.25	3.8	51.25	3.8	49.4	3.8	47.65	3.8	46.05	3.8	
3.9		3.9	54.6	3.9	52.5	3.9	50.6	3.9	48.75	3.9	47.05	3.9	45.45	3.9	
4.0		4.0	53.9	4.0	51.9	4.0	50	4.0	48.15	4.0	46.45	4.0		4.0	
4.1		4.1	53.3	4.1	51.25	4.1	49.35	4.1	47.55	4.1	45.9	4.1		4.1	
4.2		4.2	52.6	4.2	50.65	4.2	48.75	4.2	47.0	4.2	45.3	4.2		4.2	
4.3		4.3	52.0	4.3	50	4.3	48.2	4.3	46.45	4.3		4.3		4.3	
4.4		4.4	51.4	4.4	49.5	4.4	47.65	4.4	45.9	4.4		4.4		4.4	
4.5	53.15	4.5	50.85	4.5	48.9	4.5	47.1	4.5	45.4	4.5		4.5		4.5	
4.6	52.5	4.6	50.3	4.6	48.4	4.6	46.6	4.6		4.6		4.6		4.6	
4.7	52	4.7	49.75	4.7	47.9	4.7	46.1	4.7		4.7		4.7		4.7	
4.8	51.45	4.8	49.2	4.8	47.4	4.8	45.6	4.8		4.8		4.8		4.8	
4.9	50.9	4.9	48.7	4.9	46.9	4.9	45.15	4.9		4.9		4.9		4.9	

Thickness H = 8.0 MILs																			
Width W = 5.0 MILs		Width W = 5.5 MILs		Width W = 6.0 MILs		Width W = 6.5 MILs		Width W = 7.0 MILs		Width W = 7.5 MILs		Width W = 8.0 MILs		Width W = 8.5 MILs		Width W = 9.0 MILs		Width W = 9.5 MILs	
Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)	Er	Impedance (Ohms)
3.1		3.1		3.1		3.1		3.1		3.1	54.85	3.1	53.15	3.1	51.5	3.1	50.05	3.1	48.6
3.2		3.2		3.2		3.2		3.2		3.2	54.0	3.2	52.3	3.2	50.7	3.2	49.25	3.2	47.85
3.3		3.3		3.3		3.3	55.0	3.3	53.0	3.3	51.1	3.3	49.4	3.3	48.5	3.3	47.1	3.3	46.4
3.4		3.4		3.4		3.4	54.2	3.4	52.2	3.4	50.4	3.4	48.65	3.4	47.8	3.4	46.4	3.4	45.75
3.5		3.5		3.5		3.5	53.4	3.5	51.45	3.5	49.65	3.5	48	3.5	47.1	3.5	46.4	3.5	45.75
3.6		3.6		3.6		3.6	54.7	3.6	52.7	3.6	50.75	3.6	48.95	3.6	47.3	3.6	46.4	3.6	45.1
3.7		3.7		3.7	53.95	3.7	52	3.7	50	3.7	48.3	3.7	46.65	3.7	45.8	3.7	45.1	3.7	
3.8		3.8		3.8	53.25	3.8	51.25	3.8	49.4	3.8	47.65	3.8	46.05	3.8	45.2	3.8		3.8	
3.9		3.9	54.6	3.9	52.5	3.9	50.6	3.9	48.75	3.9	47.05	3.9	45.45	3.9		3.9		3.9	
4.0		4.0	53.9	4.0	51.9	4.0	50	4.0	48.15	4.0	46.45	4.0		4.0		4.0		4.0	
4.1		4.1	53.3	4.1	51.25	4.1	49.35	4.1	47.55	4.1	45.9	4.1		4.1		4.1		4.1	
4.2		4.2	52.6	4.2	50.65	4.2	48.75	4.2	47.0	4.2	45.3	4.2		4.2		4.2		4.2	
4.3		4.3	52.0	4.3	50	4.3	48.2	4.3	46.45	4.3		4.3		4.3		4.3		4.3	
4.4	54.9	4.4	52.7	4.4	50.8	4.4	49.2	4.4	47.55	4.4	46.05	4.4		4.4		4.4		4.4	
4.5	54.3	4.5	52	4.5	50.25	4.5	48.65	4.5	47.0	4.5	45.5	4.5		4.5		4.5		4.5	
4.6	53.7	4.6	51.5	4.6	49.7	4.6	48.1	4.6	46.5	4.6	45.0	4.6		4.					