Series: GMI
Description: Low Profile One Piece Array, 1.0mm x 1.0mm Grid, 1.27mm Stack Height

Time Domain Data Summary

Table 6 – Single-End Impedance (Ω) – 1:1 S/G Pattern					
Signal Risetime	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
Maximum Impedance	50.7	50.7	50	48.6	48.4
Minimum Impedance	45.4	45.5	45.7	46.1	47.0

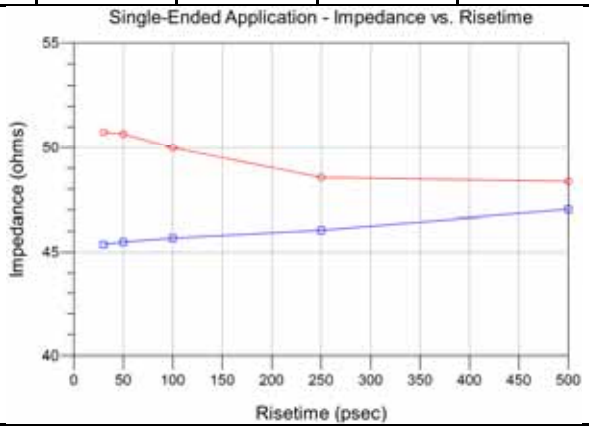
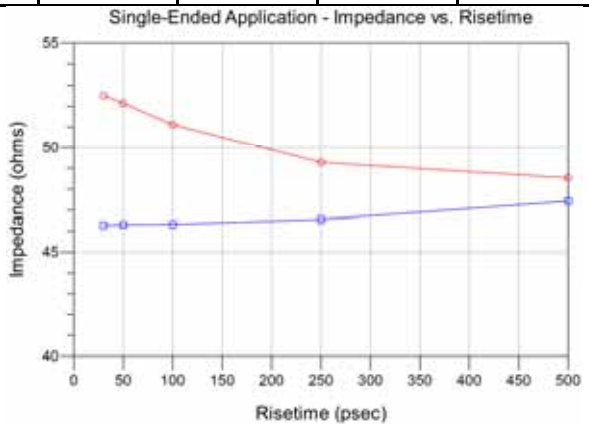


Table 7 – Single-End Impedance (Ω) – 2:1 S/G Pattern					
Signal Risetime	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
Maximum Impedance	52.5	52.1	51.1	49.3	48.5
Minimum Impedance	46.3	46.3	46.3	46.6	47.4



Series: GMI
Description: Low Profile One Piece Array, 1.0mm x 1.0mm Grid, 1.27mm Stack Height

Table 8 – Differential Impedance (Ω) – Optimal Horizontal					
Signal Risetime	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
Maximum Impedance	100.5	99.9	99.5	99.1	98.8
Minimum Impedance	91.5	91.7	92.1	93.0	93.4

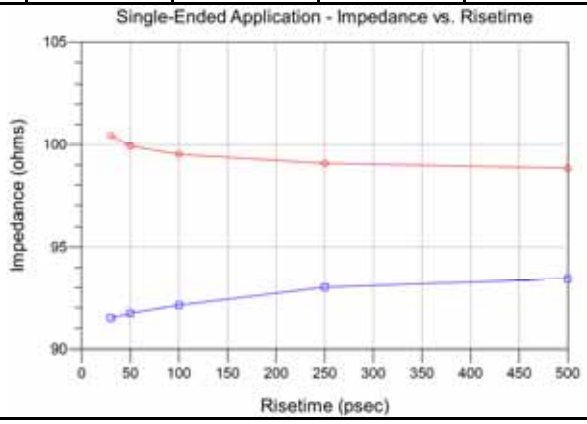
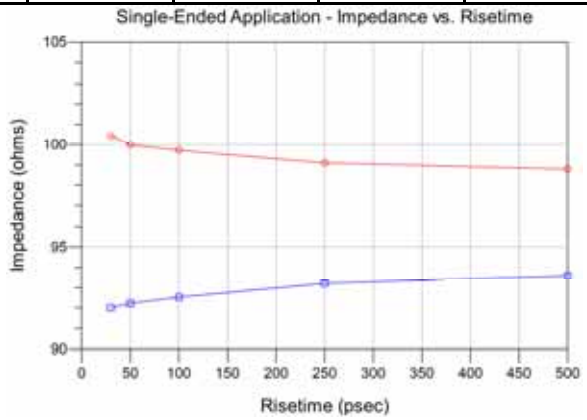
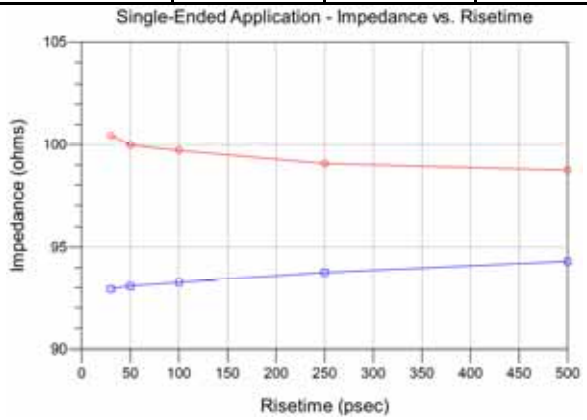


Table 9 – Differential Impedance (Ω) – Optimal Vertical					
Signal Risetime	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
Maximum Impedance	100.4	100	99.7	99.1	98.8
Minimum Impedance	92.0	92.2	92.5	93.2	93.6



Series: GMI
Description: Low Profile One Piece Array, 1.0mm x 1.0mm Grid, 1.27mm Stack Height

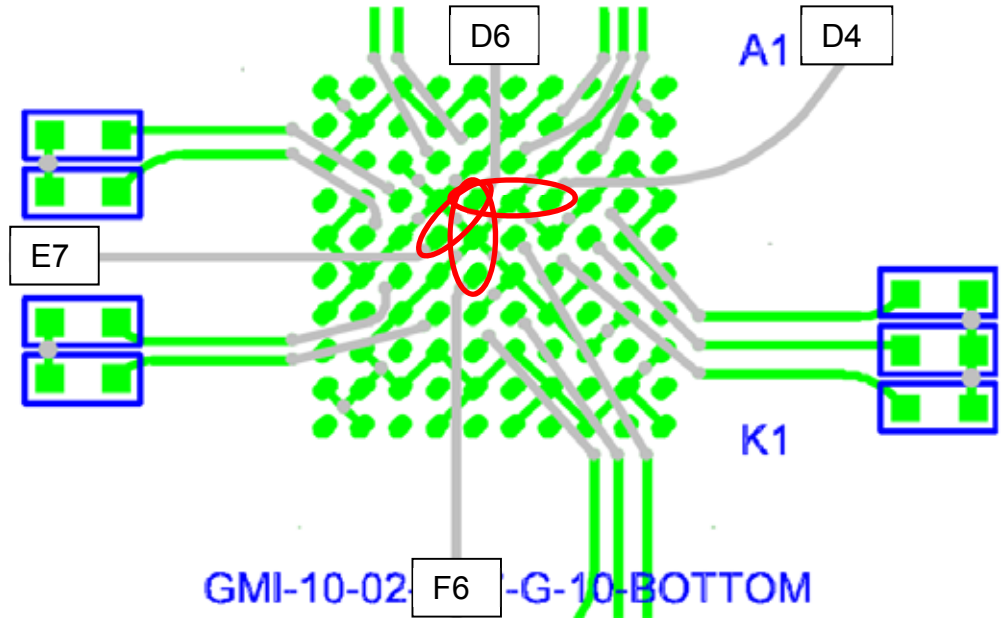
Table 10 – Differential Impedance (Ω) – High Density Vertical					
Signal Risetime	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
Maximum Impedance	100.5	100	99.7	99.1	98.7
Minimum Impedance	92.9	93.1	93.3	93.8	94.3



Series: GMI
Description: Low Profile One Piece Array, 1.0mm x 1.0mm Grid, 1.27mm Stack Height

Table 11 - Single-Ended Crosstalk (%) – 1:1 S/G Pattern							
Input(tr)	**Driver**	**Receiver**	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
NEXT	AD6	AD4	0.75	0.68	0.61	0.31	0.16
	AD6	AF6	0.33	0.26	0.16	<0.1	<0.1
	AD6	AE7	1.65	1.12	0.58	0.25	0.16
FEXT	AD6	BD4	1.25	1.06	0.71	0.30	0.16
	AD6	BF6	0.30	0.23	0.15	<0.1	<0.1
	AD6	BE7	0.62	0.46	0.31	0.14	<0.1

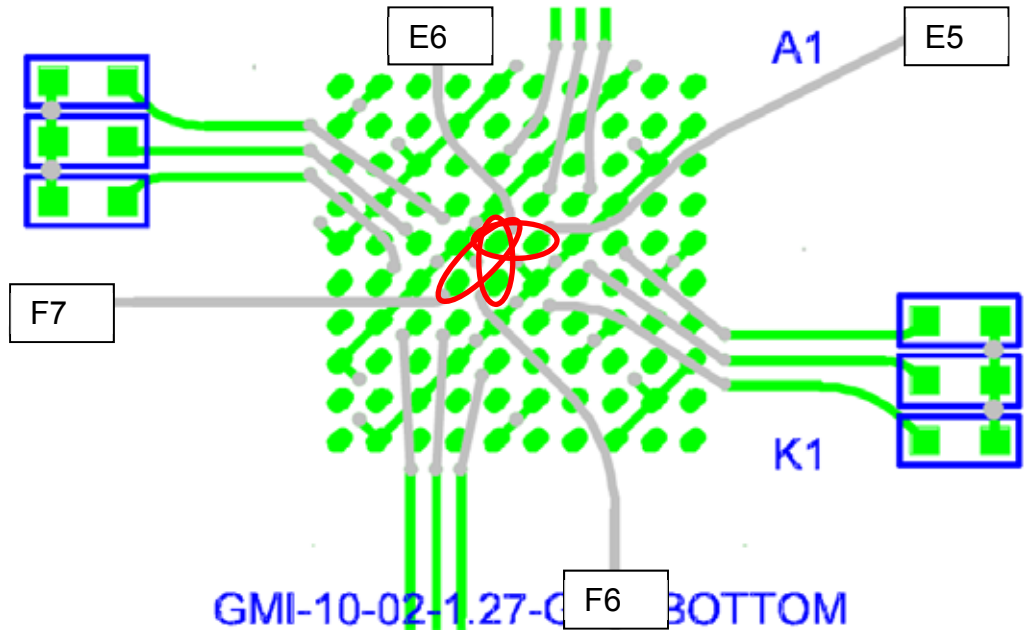
Single-Ended 1:1 S/G Pattern Crosstalk Pin Map



Series: GMI
Description: Low Profile One Piece Array, 1.0mm x 1.0mm Grid, 1.27mm Stack Height

Table 12 - Single-Ended Crosstalk (%) – 2:1 S/G Pattern							
Input(tr)	**Driver**	**Receiver**	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
NEXT	AE6	AE5	7.97	7.35	5.59	2.81	1.48
	AE6	AF6	5.49	4.16	2.30	0.99	0.58
	AE6	AF7	2.67	2.23	1.31	0.60	0.32
FEXT	AE6	BE5	6.33	5.19	3.23	1.44	0.81
	AE6	BF6	1.96	1.73	1.13	0.52	0.28
	AE6	BF7	2.34	1.76	1.04	0.49	0.25

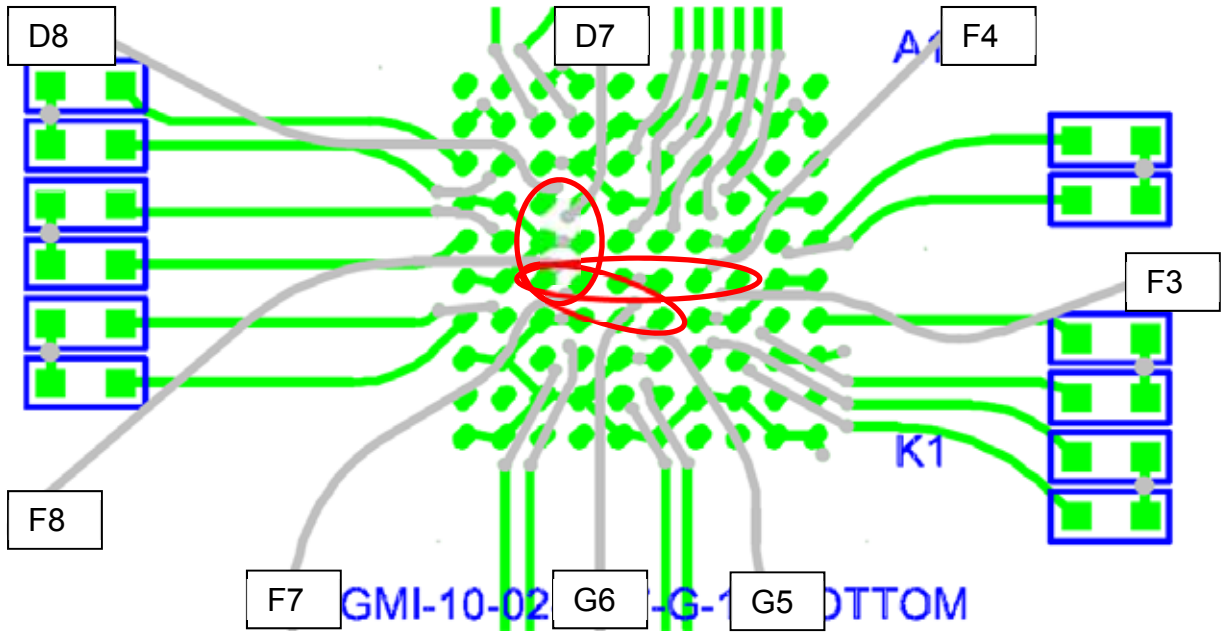
Single-Ended 2:1 S/G Pattern Crosstalk Pin Map



Series: GMI
Description: Low Profile One Piece Array, 1.0mm x 1.0mm Grid, 1.27mm Stack Height

Table 13 - Differential Crosstalk (%) – Optimal Horizontal							
Input(tr)	**Driver**	**Receiver**	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
NEXT	AF7,AF8	AF3,AF4	<0.1	<0.1	<0.1	<0.1	<0.1
	AF7,AF8	AD7,AD8	0.20	<0.1	<0.1	<0.1	<0.1
	AF7,AF8	AG5,AG6	0.58	0.43	0.26	0.12	<0.1
FEXT	AF7,AF8	BF3,BF4	<0.1	<0.1	<0.1	<0.1	<0.1
	AF7,AF8	BD7,BD8	0.40	0.31	0.16	<0.1	<0.1
	AF7,AF8	BG5,BG6	0.76	0.47	0.19	<0.1	<0.1

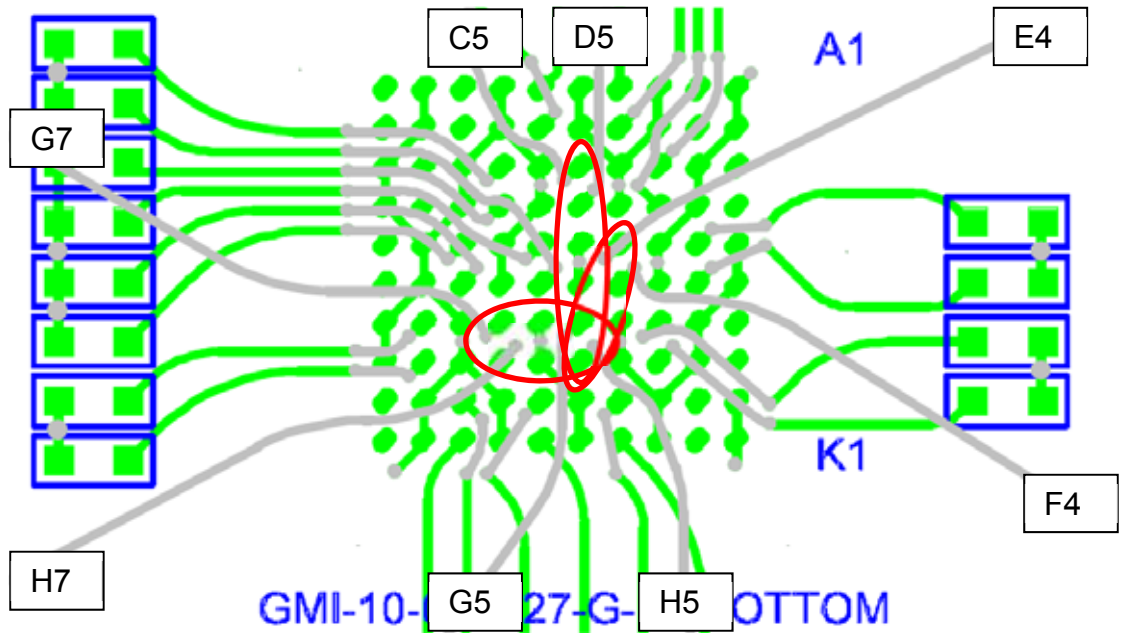
Differential Optimal Horizontal Crosstalk Pin Map



Series: GMI
Description: Low Profile One Piece Array, 1.0mm x 1.0mm Grid, 1.27mm Stack Height

Table 14 - Differential Crosstalk (%) – Optimal Vertical							
Input(tr)	**Driver**	**Receiver**	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
NEXT	AG5,AH5	AG7,AH7	0.18	0.11	<0.1	<0.1	<0.1
	AG5,AH5	AC5,AD5	0.18	0.17	0.14	<0.1	<0.1
	AG5,AH5	AE4,AF4	0.70	0.40	0.15	<0.1	<0.1
FEXT	AG5,AH5	BG7,BH7	0.34	0.21	<0.1	<0.1	<0.1
	AG5,AH5	BC5,BD5	0.15	0.13	<0.1	<0.1	<0.1
	AG5,AH5	BE4,BF4	0.18	0.12	<0.1	<0.1	<0.1

Differential Optimal Vertical Crosstalk Pin Map

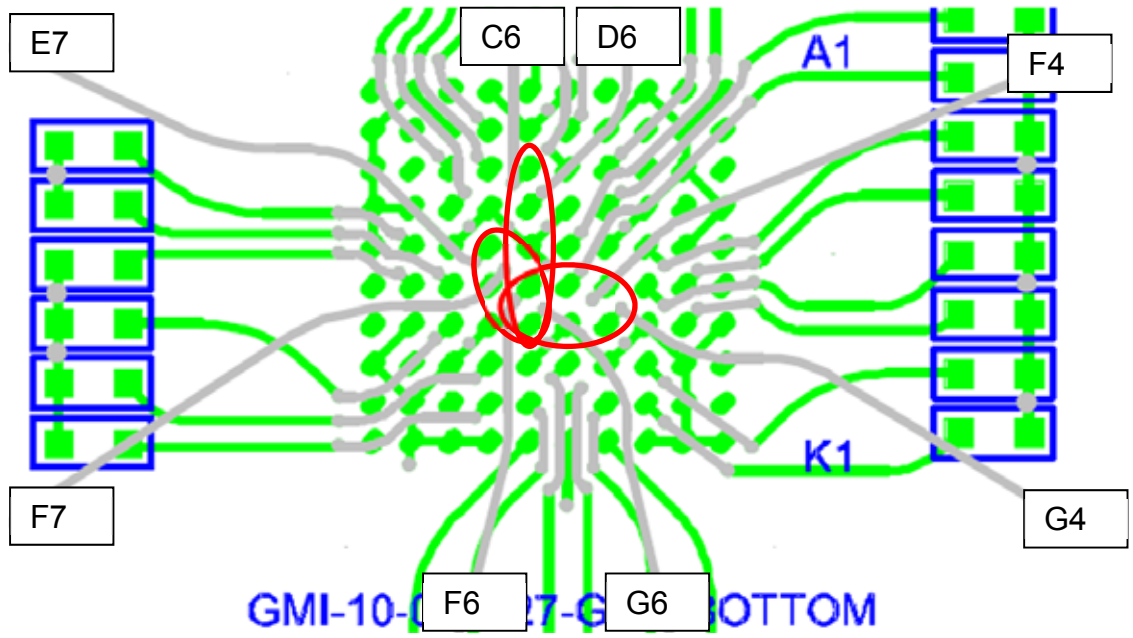


Series: GMI
Description: Low Profile One Piece Array, 1.0mm x 1.0mm Grid, 1.27mm Stack Height

Table 15 - Differential Crosstalk (%) – High Density Vertical

Input(tr)	Driver	Receiver	30 ps	50 ps	100 ps	250 ps	500 ps
NEXT	AF6,AG6	AF4,AG4	0.91	0.41	0.36	0.18	<0.1
	AF6,AG6	AC6,AD6	0.32	0.23	<0.1	<0.1	<0.1
	AF6,AG6	AE7,AF7	3.38	2.57	2.03	1.07	0.52
FEXT	AF6,AG6	BF4,BG4	0.27	0.15	<0.1	<0.1	<0.1
	AF6,AG6	BC6,BD6	0.26	0.17	<0.1	<0.1	<0.1
	AF6,AG6	BE7,BF7	1.48	0.88	0.39	0.15	0.13

Differential High Density Vertical Crosstalk Pin Map



Series: GMI
Description: Low Profile One Piece Array, 1.0mm x 1.0mm Grid, 1.27mm Stack Height

Table 16 - Propagation Delay (Mated Connector)	
Single-Ended: 1:1 S/G	48 ps
Single-Ended: 2:1 S/G	50 ps
Differential: Optimal Horizontal	43 ps
Differential: Optimal Vertical	43 ps
Differential: High Density Vertical	46 ps