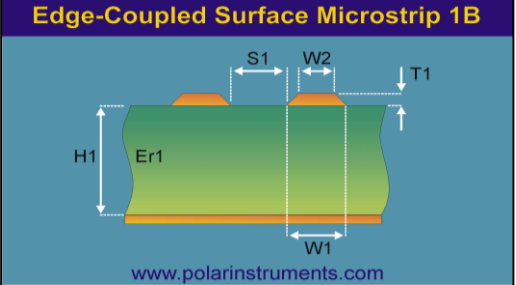


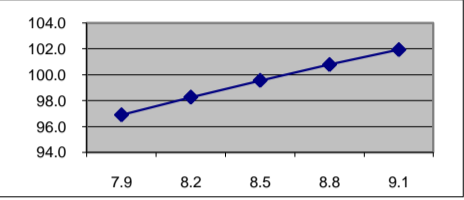
This sheet is protected without password.  
 If Si8000.xls is not already open, open it now.  
 The darker blue fields permit entry of dimensional and other data. In the top frame, enter the nominal design dimensions, Er etc. In the lower frames, enter the increment size for evaluation.  
 Press <control><q> to calculate this page. (Don't use F9 as it tends to calculate other sheets too.)  
 Explanation: In frame 3, W and W1 vary in width together, maintaining the same Etch Taper and center-to-center track spacing, while frame 4 changes only the W dimension, meaning that the Etch Taper has been changed.  
**Got questions? Call Ken Taylor, +1 503 356 5270 USA Pacific Time. Or Email kendirect@polarinstruments.com**

| H1  | Er1 | W1    | W2    | S1 | T1  | Z**/D/EEr | Zdiff     |       |
|-----|-----|-------|-------|----|-----|-----------|-----------|-------|
| 8.5 | 4.2 | 12.00 | 11.00 | 9  | 1.2 | Zdiff     | 99.6      |       |
|     |     |       |       |    |     |           | Min =     | 91.0  |
|     |     |       |       |    |     |           | Nominal = | 99.6  |
|     |     |       |       |    |     |           | Max =     | 108.2 |
|     |     |       |       |    |     |           |           | 9%    |

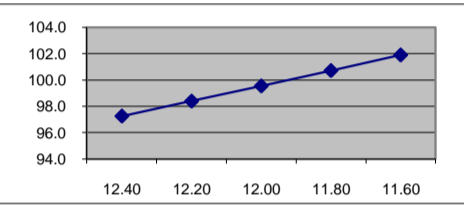
Etch taper = W1 - W2 = 1.0



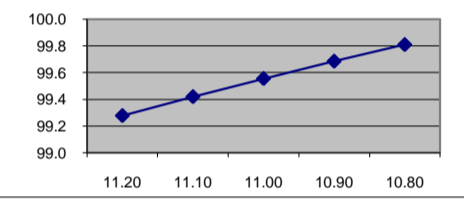
| H1(Var) |     | 0.30  |       |   |     |       |       |
|---------|-----|-------|-------|---|-----|-------|-------|
| 7.9     |     |       |       |   |     | Zdiff | 96.9  |
| 8.2     |     |       |       |   |     |       | 98.3  |
| 8.5     | 4.2 | 12.00 | 11.00 | 9 | 1.2 | Zdiff | 99.6  |
| 8.8     |     |       |       |   |     |       | 100.8 |
| 9.1     |     |       |       |   |     |       | 101.9 |



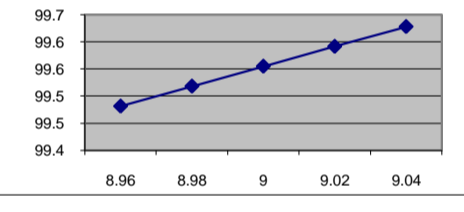
|     |     | W1(Wvar) |       | W2(var) |     | 0.2   |       |
|-----|-----|----------|-------|---------|-----|-------|-------|
|     |     | 12.40    | 11.40 |         |     |       | 97.3  |
|     |     | 12.20    | 11.20 |         |     |       | 98.4  |
| 8.5 | 4.2 | 12.00    | 11.00 | 9       | 1.2 | Zdiff | 99.6  |
|     |     | 11.80    | 10.80 |         |     |       | 100.7 |
|     |     | 11.60    | 10.60 |         |     |       | 101.9 |



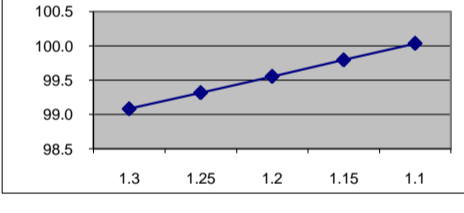
|     |     | 0.10  |       | W2(var) |     |       |      |
|-----|-----|-------|-------|---------|-----|-------|------|
|     |     |       |       | 11.20   |     |       | 99.3 |
|     |     |       |       | 11.10   |     |       | 99.4 |
| 8.5 | 4.2 | 12.00 | 11.00 | 9       | 1.2 | Zdiff | 99.6 |
|     |     |       |       | 10.90   |     |       | 99.7 |
|     |     |       |       | 10.80   |     |       | 99.8 |



|     |     | S1(Var) |       | 0.02 |     |       |      |
|-----|-----|---------|-------|------|-----|-------|------|
|     |     |         |       | 8.96 |     |       | 99.5 |
|     |     |         |       | 8.98 |     |       | 99.5 |
| 8.5 | 4.2 | 12.00   | 11.00 | 9    | 1.2 | Zdiff | 99.6 |
|     |     |         |       | 9.02 |     |       | 99.6 |
|     |     |         |       | 9.04 |     |       | 99.6 |



|     |     | 0.05  |       | T1(Var) |     |       |       |
|-----|-----|-------|-------|---------|-----|-------|-------|
|     |     |       |       | 1.3     |     |       | 99.1  |
|     |     |       |       | 1.25    |     |       | 99.3  |
| 8.5 | 4.2 | 12.00 | 11.00 | 9       | 1.2 | Zdiff | 99.6  |
|     |     |       |       | 1.15    |     |       | 99.8  |
|     |     |       |       | 1.1     |     |       | 100.0 |



|     |     | Er1   |       | 0.15 |     |       |       |
|-----|-----|-------|-------|------|-----|-------|-------|
|     |     |       |       | 4.5  |     |       | 96.8  |
|     |     |       |       | 4.35 |     |       | 98.1  |
| 8.5 | 4.2 | 12.00 | 11.00 | 9    | 1.2 | Zdiff | 99.6  |
|     |     |       |       | 4.05 |     |       | 101.0 |
|     |     |       |       | 3.9  |     |       | 102.6 |

