

### DCM Test Report

|                                |                                     |                                         |
|--------------------------------|-------------------------------------|-----------------------------------------|
| Cable Type : 4x2x23 x PE/LSZH  | Factory Number : PHOENIX            | Data File Name : DA079038.D3S           |
| Cable I.D. : S/FTP#23X4P CABLE | Order Number : 1150 VI-15 200124931 | Specification File : IEC CAT7-305M.S3S  |
| Temperature : 25.00 °C         | Relative Humidity : 50 %            | Test Date/Time : 01/31/2020 03:48:12 PM |
| Length : 305.00 m              | Number of Pairs to Test : 4         | Operator : L 200121SM019001/R1          |
| Starting Position : 25         |                                     | Analyzer Type : ENA                     |

### Pass - Fail Test Certificate - 4 Pairs

#### High Frequency

| Test Type                                       | Test Result |
|-------------------------------------------------|-------------|
| Input Impedance(Zin)(Ohms)                      | OK          |
| Return Loss (RL)(dB)                            | OK          |
| Return Loss (RL-Far End)(dB)                    | OK          |
| Insertion Loss (IL)(Curve Fit)(dB/328.0 ft)@20C | OK          |
| Near End Crosstalk Loss (NEXT)(dB)              | OK          |
| Power Sum NEXT(PSNEXT)(dB)                      | OK          |

#### Low Frequency

| Test Type                                   | Test Result |
|---------------------------------------------|-------------|
| Conductor Resistance(Ohms/100.0 m)@20C      | OK          |
| Resistance Unbalance( % )                   | OK          |
| Mutual Capacitance(nF/100.0 m)@1000Hz       | OK          |
| Cap. Unbalance to Ground(pF/100.0 m)@1000Hz | OK          |

|            |           |       |
|------------|-----------|-------|
| Signature: | Approved: | Date: |
|------------|-----------|-------|

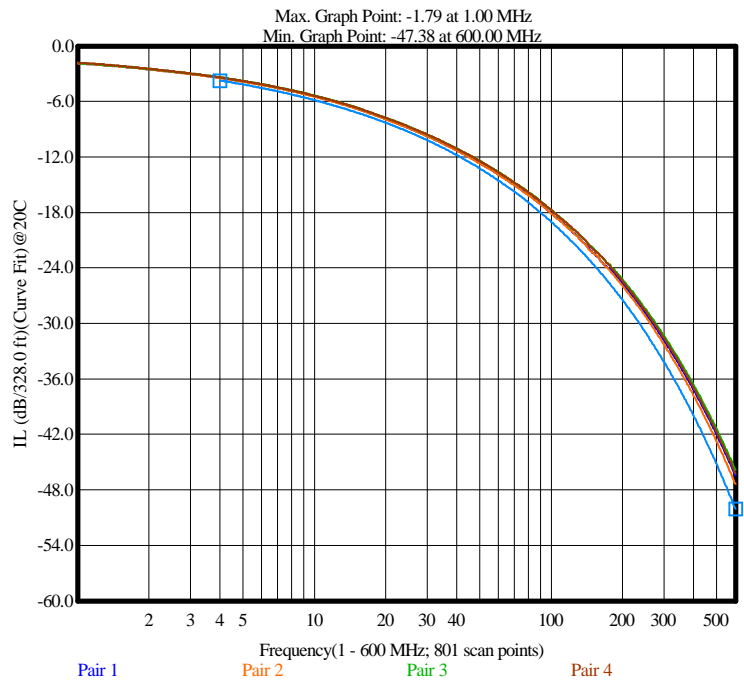
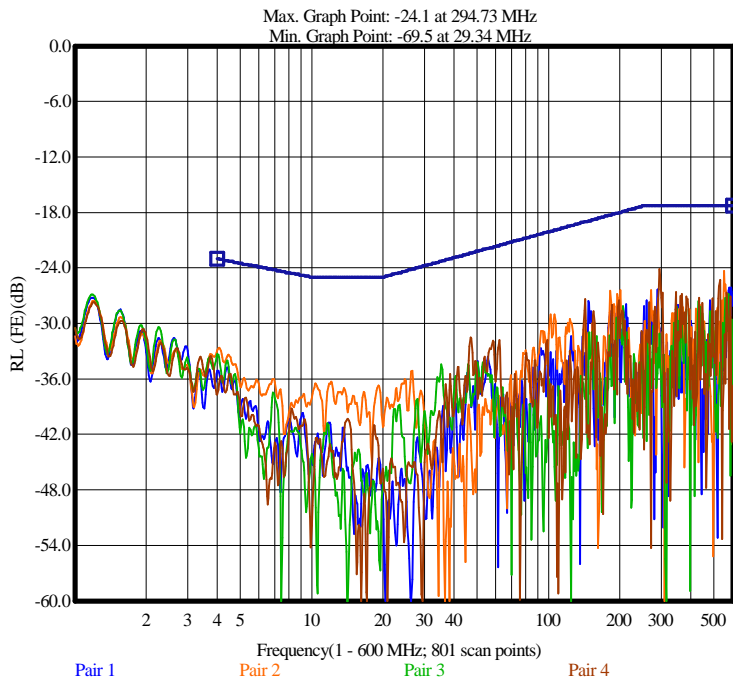
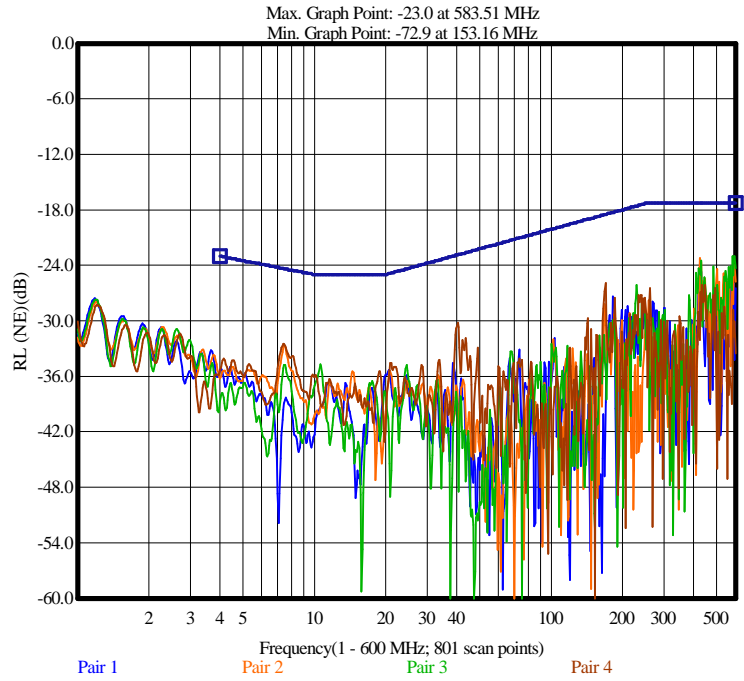
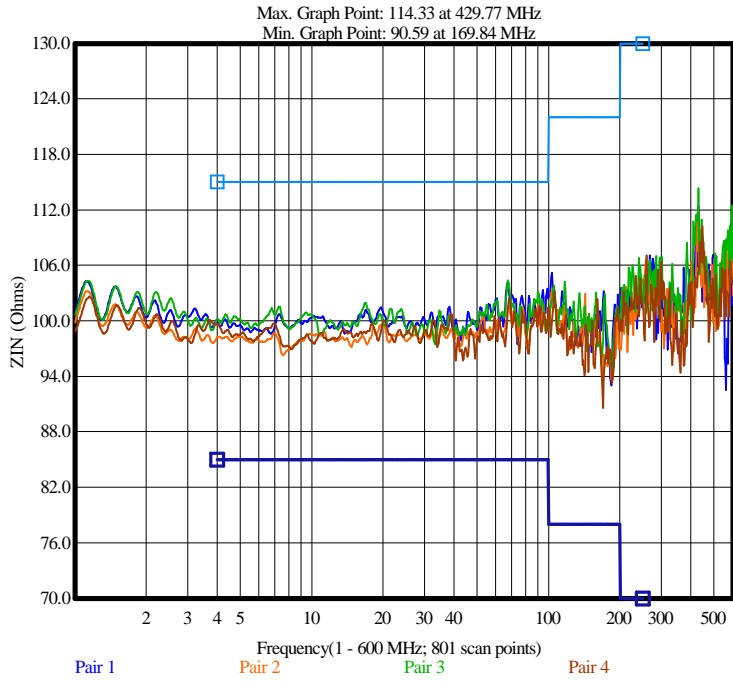
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| Cable I.D. : S/FTP#23X4P CABLE | Order Number : 1150 VI-15 200124931 | Specification File : IEC CAT7-305M.S3S  |
| Temperature : 25.00 °C         | Relative Humidity : 50 %            | Test Date/Time : 01/31/2020 03:48:12 PM |
| Length : 305.00 m              | Number of Pairs to Test : 4         | Operator : L 200121SM019001/R1          |
| Starting Position : 25         |                                     | Analyzer Type : ENA                     |

### Worst Case Summary

#### High Frequency

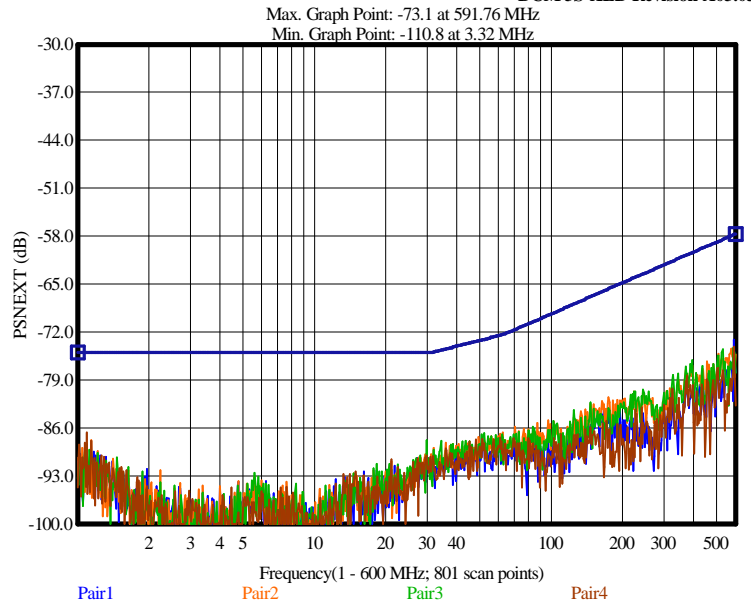
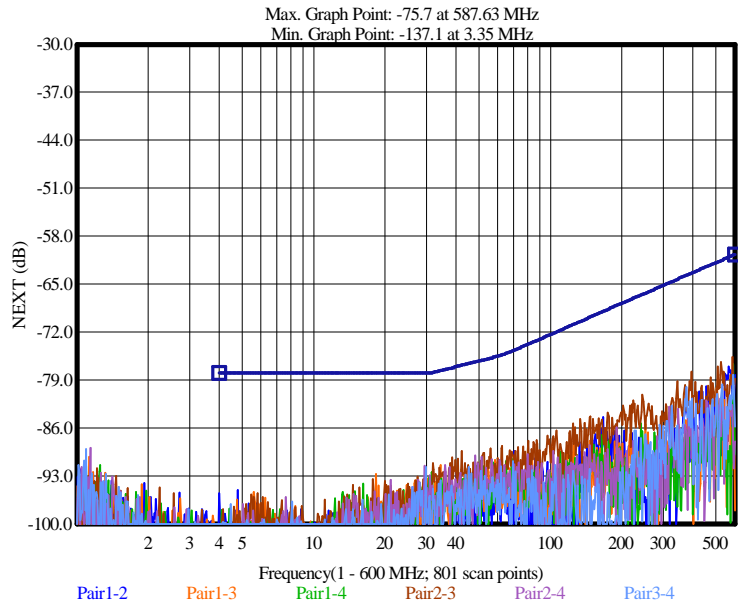
| Test Type                          | Specification | Measured (Pair)  | Margin | @ Frequency (MHz) | Test Result |
|------------------------------------|---------------|------------------|--------|-------------------|-------------|
| Input Impedance(Zin)               | 85.00 (Min)   | 95.72 (Pair 4)   | 10.72  | 40.70             | Passed      |
| Input Impedance(Zin)               | 115.00 (Max)  | 104.36 (Pair 3)  | 10.64  | 67.48             | Passed      |
| Return Loss (RL)                   | 17.3 (Min)    | 23.0 (Pair 3)    | 5.7    | 583.51            | Passed      |
| Return Loss (RL-Far End)           | 17.3 (Min)    | 24.1 (Pair 4)    | 6.8    | 294.73            | Passed      |
| Insertion Loss (IL)(Curve Fit)@20C | 3.75 (Max)    | 3.50 (Pair 2)    | 0.25   | 4.03              | Passed      |
| Near End Crosstalk Loss (NEXT)     | 76.9 (Min)    | 89.3 (Pairs 2-3) | 12.4   | 42.29             | Passed      |
| Power Sum NEXT(PSNEXT)             | 75.0 (Min)    | 86.7 (Pair 4)    | 11.7   | 1.09              | Passed      |



N/A = Not Applicable.  
 --- = Disable/Bypassed Pair.

\* = Measured value out of spec.  
 xxx = No entry.

\*\*\* = Measured value is invalid.  
 ISTD



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ISTP

## Worst Case Summary

## Low Frequency

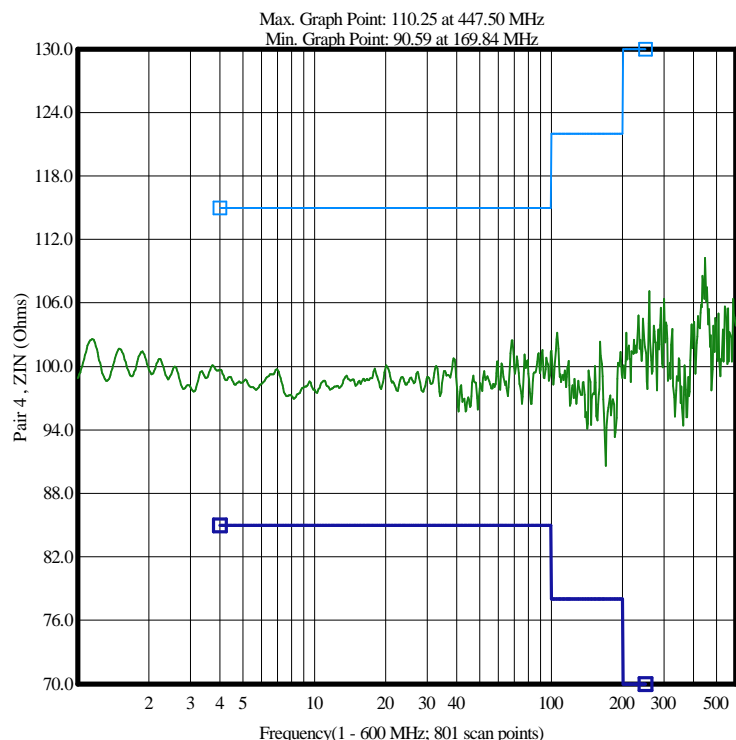
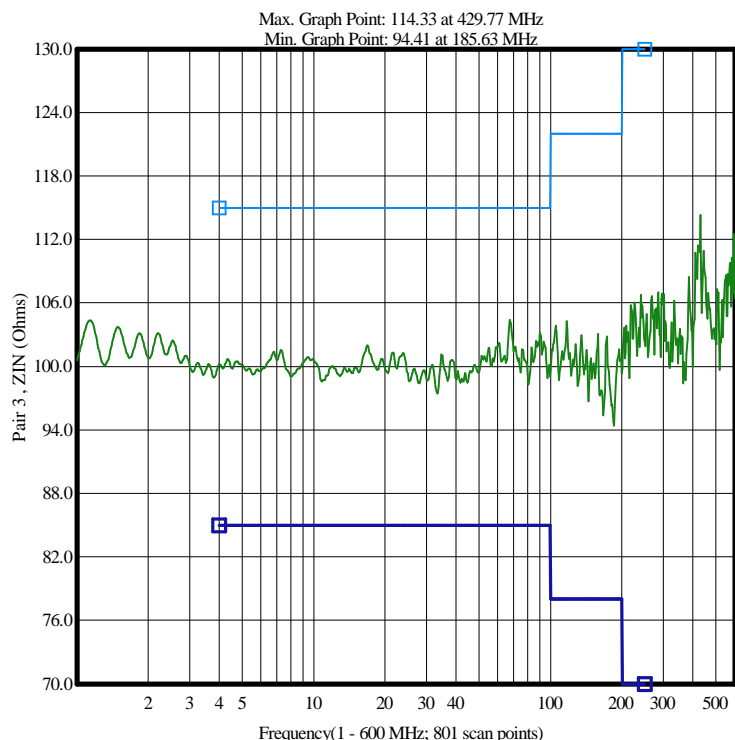
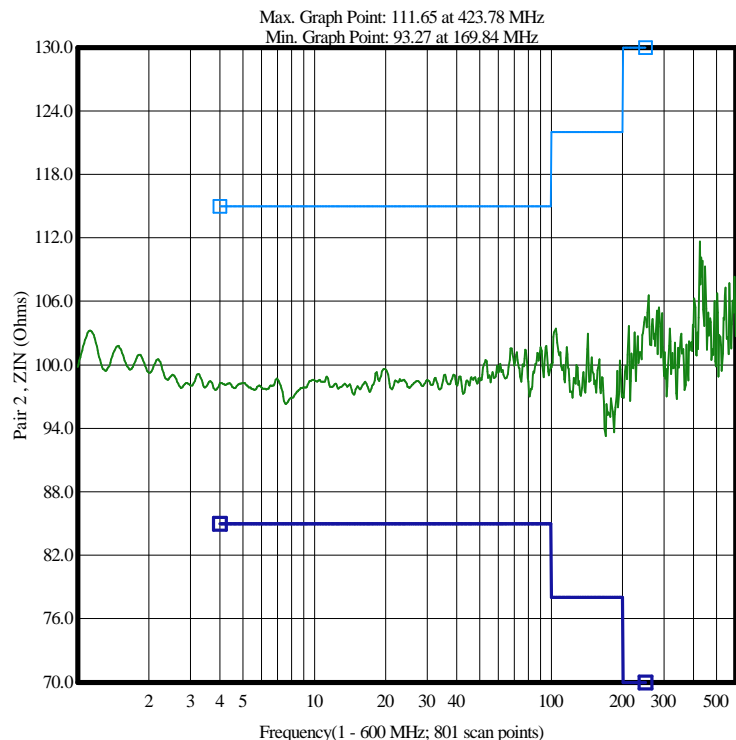
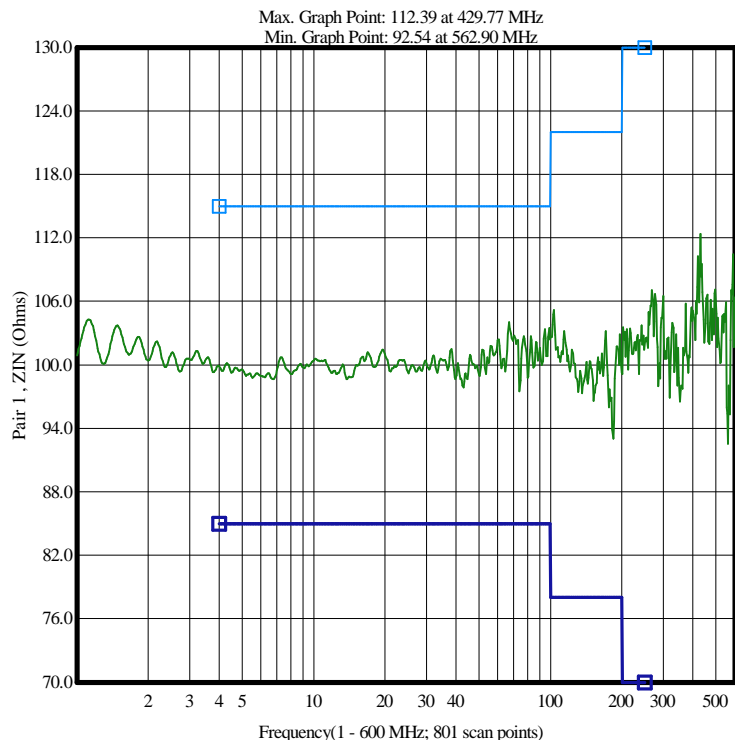
| Statistical Parameter                       | Maximum    |          | Minimum    |          | Average Maximum |          | Standard Deviation |          | Result |
|---------------------------------------------|------------|----------|------------|----------|-----------------|----------|--------------------|----------|--------|
|                                             | Spec Limit | Measured | Spec Limit | Measured | Spec Limit      | Measured | Spec Limit         | Measured |        |
| Conductor Resistance(Ohms/100.0 m)@20C      | 9.38       | 6.63     | xxx        | 6.45     | xxx             | 6.53     | xxx                | 0.060    | Passed |
| Resistance Unbalance( % )                   | 5.00       | 0.82     | xxx        | 0.14     | xxx             | 0.37     | xxx                | 0.265    | Passed |
| Mutual Capacitance(nF/100.0 m)@1000Hz       | 5.60       | 4.80     | xxx        | 4.71     | xxx             | 4.75     | xxx                | 0.038    | Passed |
| Cap. Unbalance to Ground(pF/100.0 m)@1000Hz | 330        | 91       | xxx        | 12       | xxx             | 48       | xxx                | 36.7     | Passed |

## Detail: Resistance/Capacitance Measurement -Normalized

| Test Types  | Conductor Resistance Ra @20C | Conductor Resistance Rb @20C | Resistance Unbalance | Mutual Capacitance @1000 Hz | Capacitance Unbalance to Ground @1000 Hz | Test Result |
|-------------|------------------------------|------------------------------|----------------------|-----------------------------|------------------------------------------|-------------|
| Unit        | Ohms/100.0 m                 | Ohms/100.0 m                 | %                    | nF/100.0 m                  | pF/100.0 m                               |             |
| Max Spec    | 9.38                         | 9.38                         | 5.00                 | 5.60                        | 330                                      |             |
| Min Spec    | xxx                          | xxx                          | xxx                  | xxx                         | xxx                                      |             |
| Pair 1 [25] | 6.63                         | 6.58                         | 0.82                 | 4.77                        | -13                                      | Passed      |
| Pair 2 [26] | 6.49                         | 6.48                         | 0.14                 | 4.80                        | 91                                       | Passed      |
| Pair 3 [27] | 6.54                         | 6.56                         | 0.28                 | 4.71                        | 78                                       | Passed      |
| Pair 4 [28] | 6.45                         | 6.46                         | 0.24                 | 4.71                        | 12                                       | Passed      |

### Summary and Graphic: Input Impedance(Zin)

| Pair        | Specification |         | Measured(Ohms) |         | Margin (Ohms) |         | @ Frequency (MHz) |         | Test Result |
|-------------|---------------|---------|----------------|---------|---------------|---------|-------------------|---------|-------------|
|             | Minimum       | Maximum | Minimum        | Maximum | Minimum       | Maximum | Minimum           | Maximum |             |
| Pair 1 [25] | 85.00         | 115.00  | 97.52          | 104.04  | 12.52         | 10.96   | 74.13             | 66.88   | Passed      |
| Pair 2 [26] | 85.00         | 115.00  | 96.26          | 101.79  | 11.26         | 13.21   | 7.58              | 95.41   | Passed      |
| Pair 3 [27] | 85.00         | 115.00  | 97.41          | 104.36  | 12.41         | 10.64   | 33.27             | 67.48   | Passed      |
| Pair 4 [28] | 85.00         | 115.00  | 95.72          | 102.45  | 10.72         | 12.55   | 40.70             | 68.69   | Passed      |



N/A = Not Applicable.  
--- = Disable/Bypassed Pair.

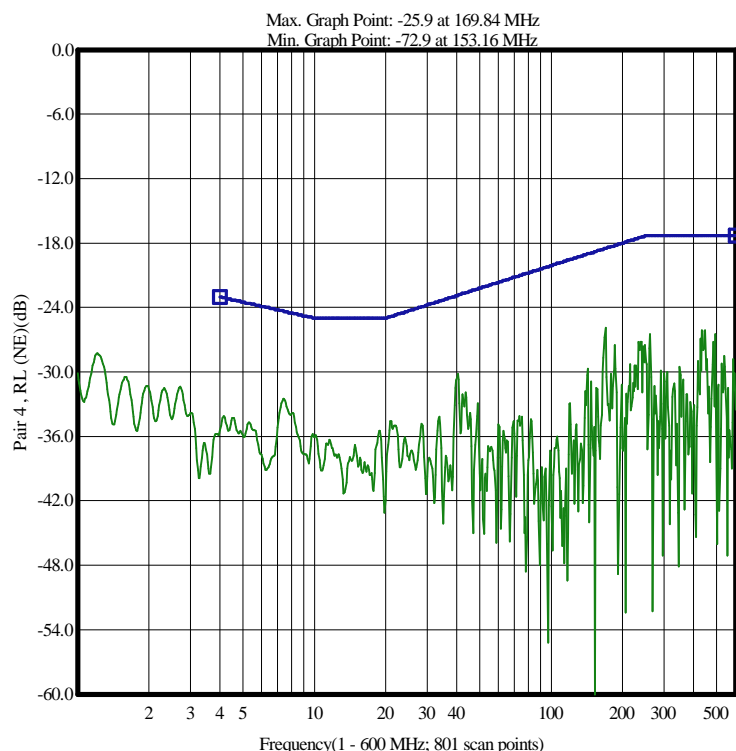
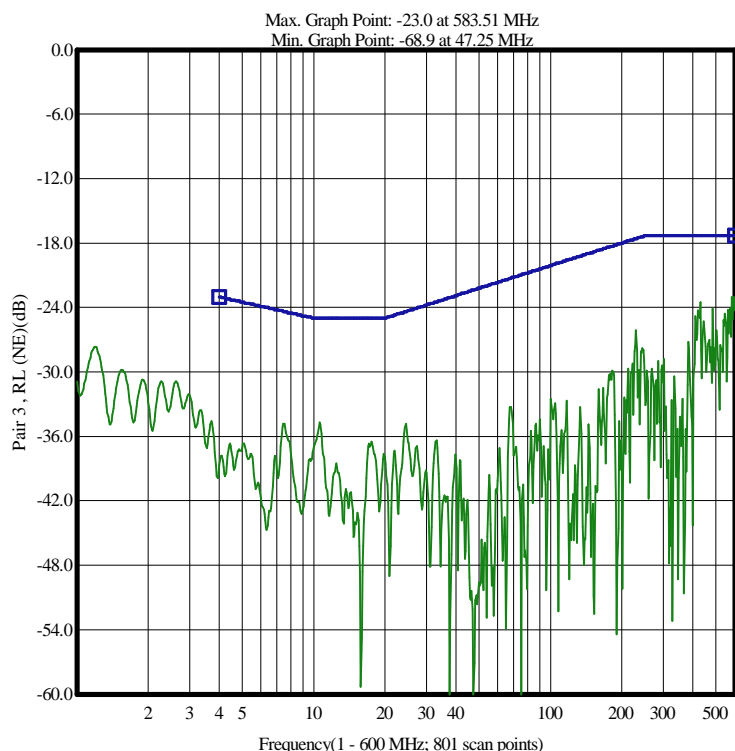
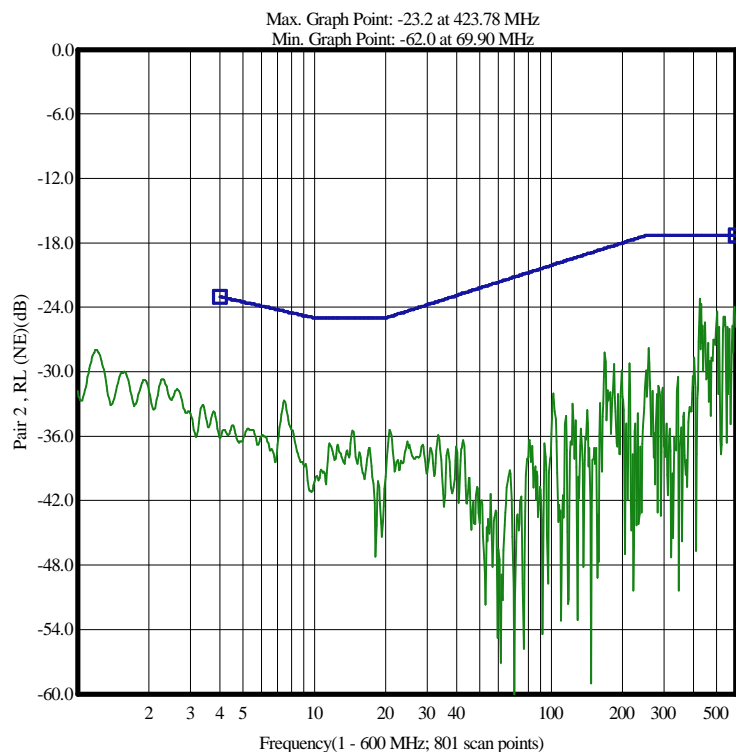
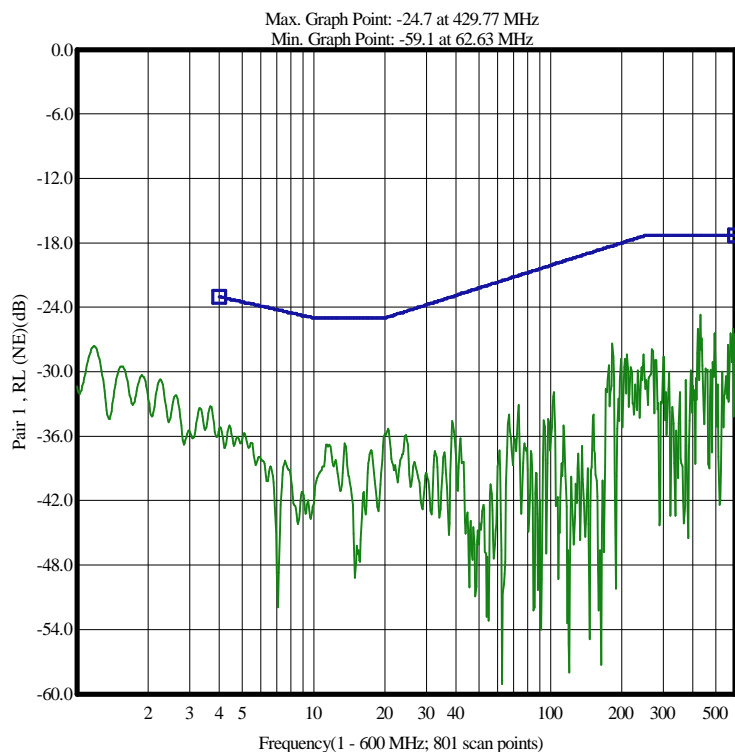
\* = Measured value out of spec.  
xxx = No entry.

\*\*\* = Measured value is invalid.  
ISTP

### Summary and Graphic: Return Loss (RL)

(Formula): $RL \geq 20.0 + 5.0 * \text{Log}(f/1.0)$ ;  $25.0 + 0.0 * \text{Log}(f/1.0)$ ;  $25.0 + 7.0 * \text{Log}(f/20.0)$ ;  $0.0 + 10.0 * \text{Log}(f/600.0)$ ;  $0.0 + 0.0 * \text{Log}(f/1.0)$ ; Min=-17.3

| Pair        | Spec (Min)(dB) | Measured(dB) | Margin (dB) | @ Frequency (MHz) | Test Result |
|-------------|----------------|--------------|-------------|-------------------|-------------|
| Pair 1 [25] | 17.3           | 24.7         | 7.4         | 429.77            | Passed      |
| Pair 2 [26] | 17.3           | 23.2         | 5.9         | 423.78            | Passed      |
| Pair 3 [27] | 17.3           | 23.0         | 5.7         | 583.51            | Passed      |
| Pair 4 [28] | 22.9           | 30.2         | 7.3         | 40.38             | Passed      |



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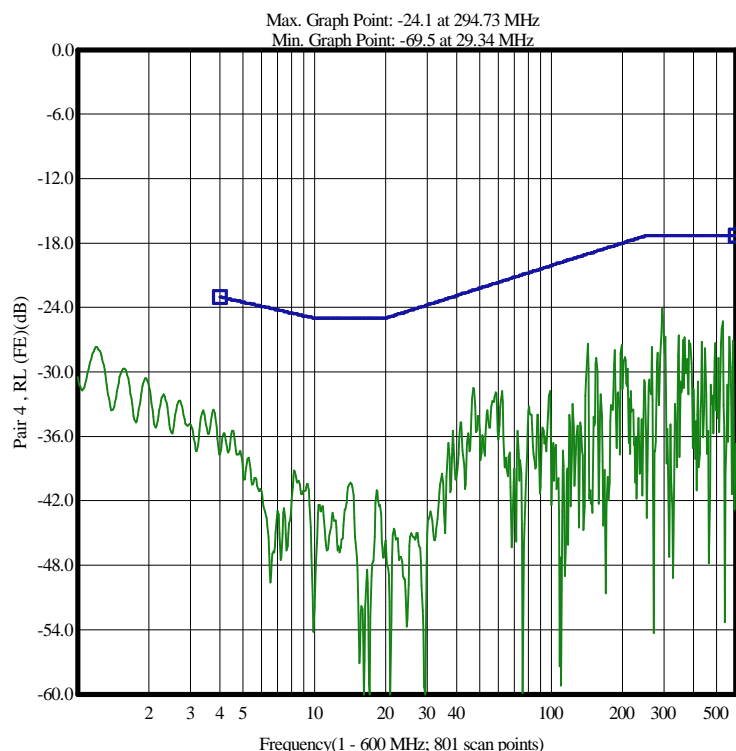
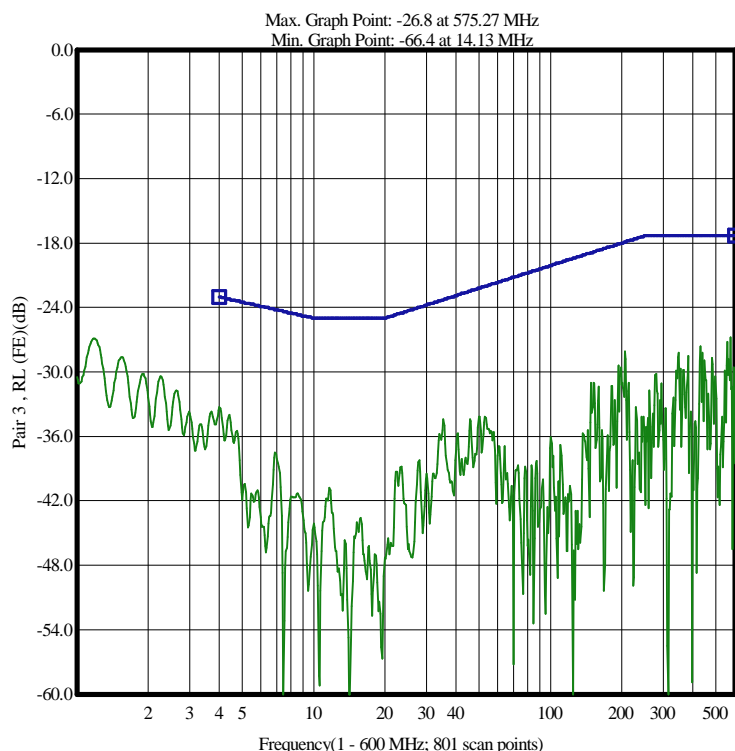
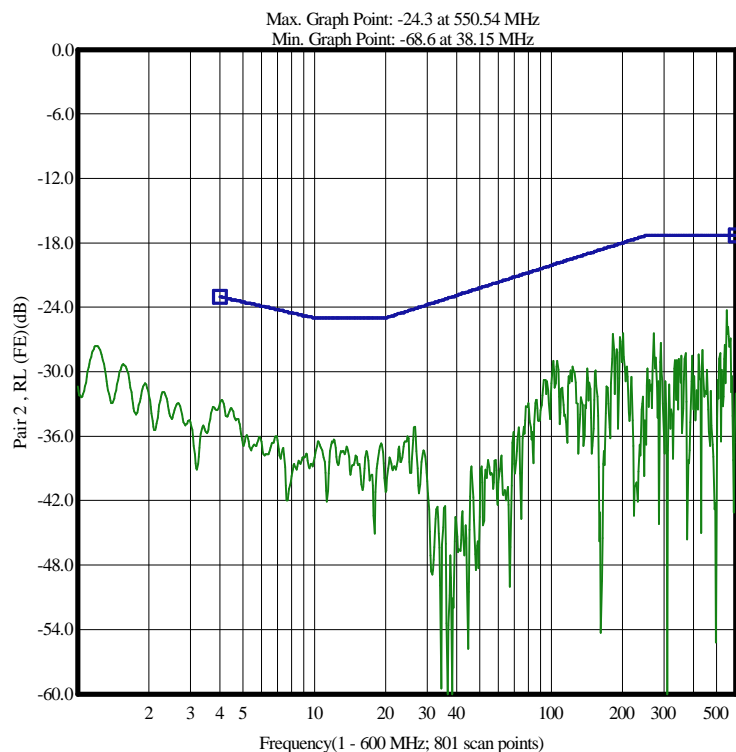
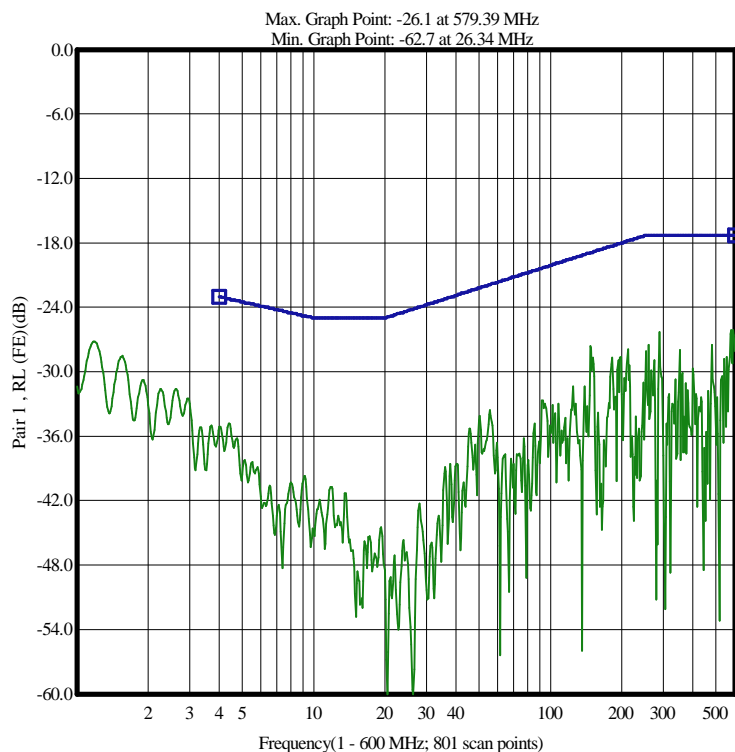
\* = Measured value out of spec.  
xxx = No entry.

\*\*\* = Measured value is invalid.  
ISTP

### Summary and Graphic: Return Loss (RL\_FE)

(Formula): $RL >= 20.0 + 5.0 * \text{Log}(f/1.0)$ ;  $25.0 + 0.0 * \text{Log}(f/1.0)$ ;  $25.0 + -7.0 * \text{Log}(f/20.0)$ ;  $0.0 + 10.0 * \text{Log}(f/600.0)$ ;  $0.0 + 0.0 * \text{Log}(f/1.0)$ ; Min=-17.3

| Pair        | Spec (Min)(dB) | Measured(dB) | Margin (dB) | @ Frequency (MHz) | Test Result |
|-------------|----------------|--------------|-------------|-------------------|-------------|
| Pair 1 [25] | 18.9           | 27.6         | 8.7         | 147.43            | Passed      |
| Pair 2 [26] | 17.3           | 24.3         | 7.0         | 550.54            | Passed      |
| Pair 3 [27] | 17.3           | 26.8         | 9.5         | 575.27            | Passed      |
| Pair 4 [28] | 17.3           | 24.1         | 6.8         | 294.73            | Passed      |



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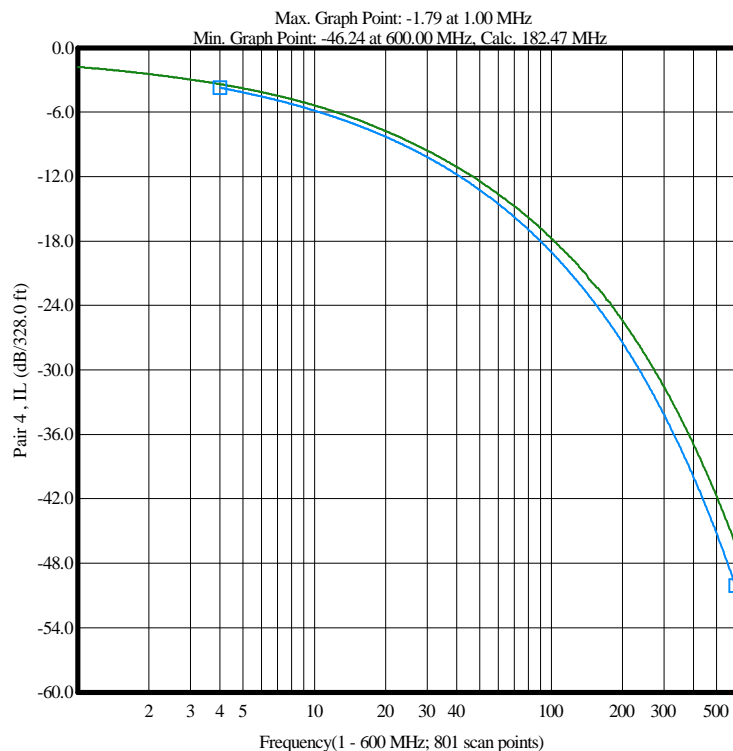
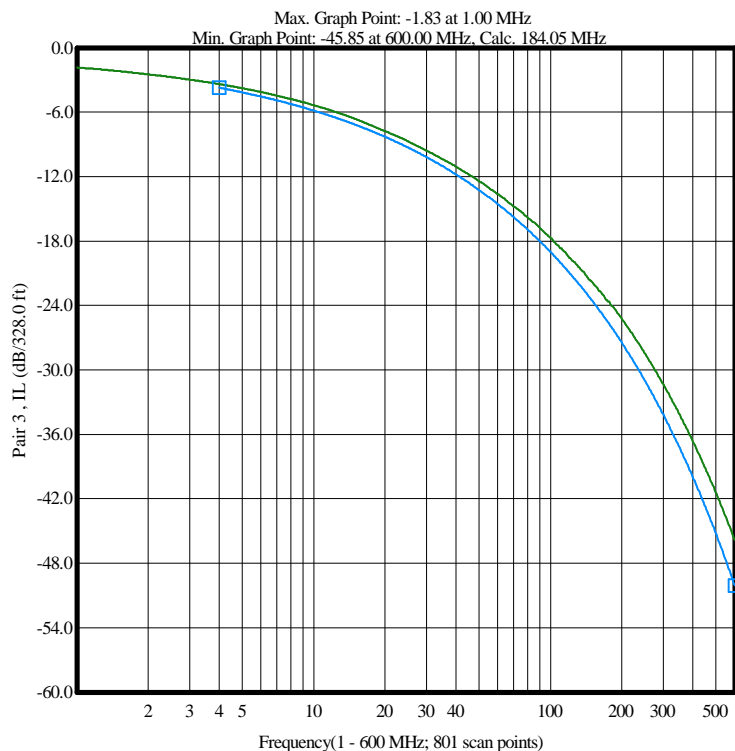
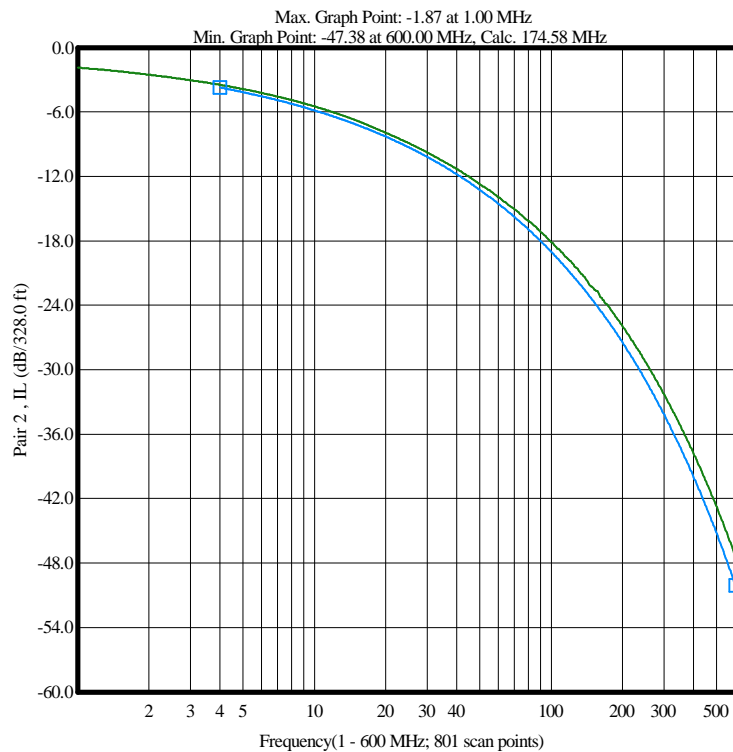
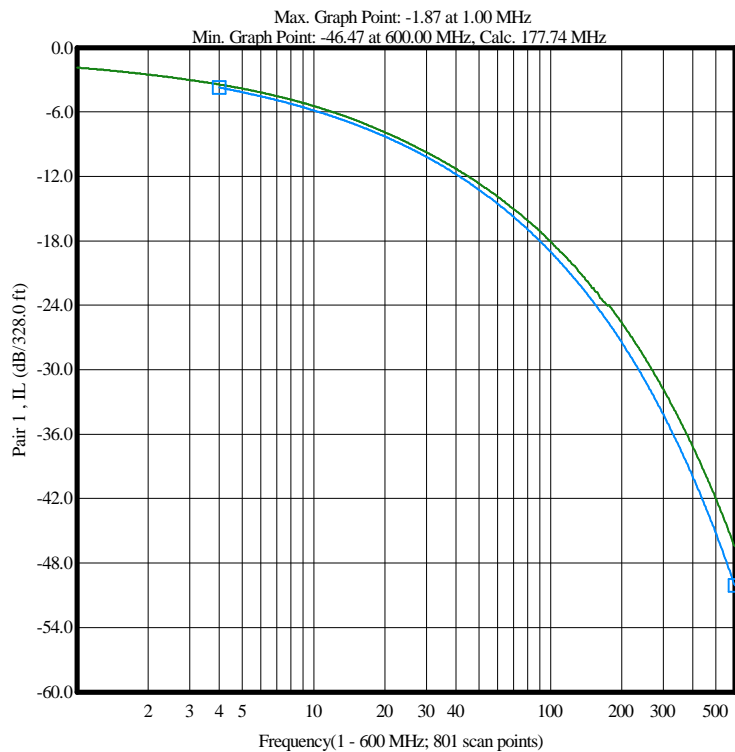
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### Summary and Graphic: Insertion Loss (IL)(Curve Fit)@20C

(Formula):  $IL \leq [ (1.800 * \sqrt{f}) + (0.010 * f) + (0.200 * \sqrt{f}) ] * 1.000 * \text{Stranded Factor}$  (Refer to manual)

| Pair        | Spec (Max)(dB/328.0 ft) | Measured(dB/328.0 ft) | Margin (dB/328.0 ft) | @ Frequency (MHz) | Test Result |
|-------------|-------------------------|-----------------------|----------------------|-------------------|-------------|
| Pair 1 [25] | 3.75                    | 3.46                  | 0.29                 | 4.03              | Passed      |
| Pair 2 [26] | 3.75                    | 3.50                  | 0.25                 | 4.03              | Passed      |
| Pair 3 [27] | 3.75                    | 3.41                  | 0.34                 | 4.03              | Passed      |
| Pair 4 [28] | 3.75                    | 3.41                  | 0.34                 | 4.03              | Passed      |



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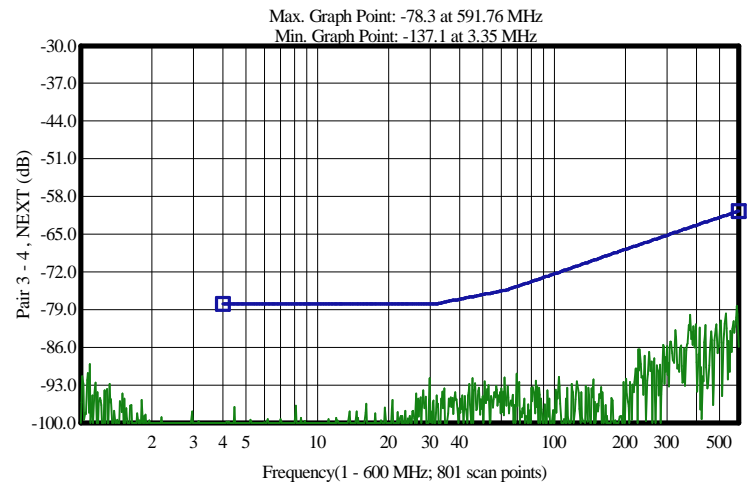
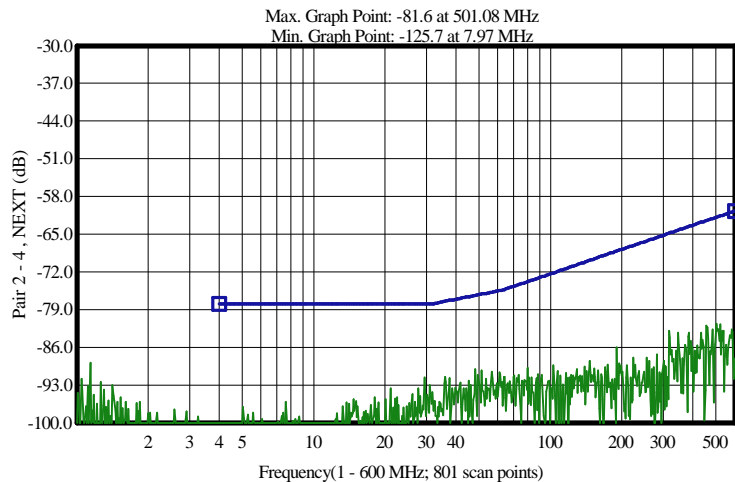
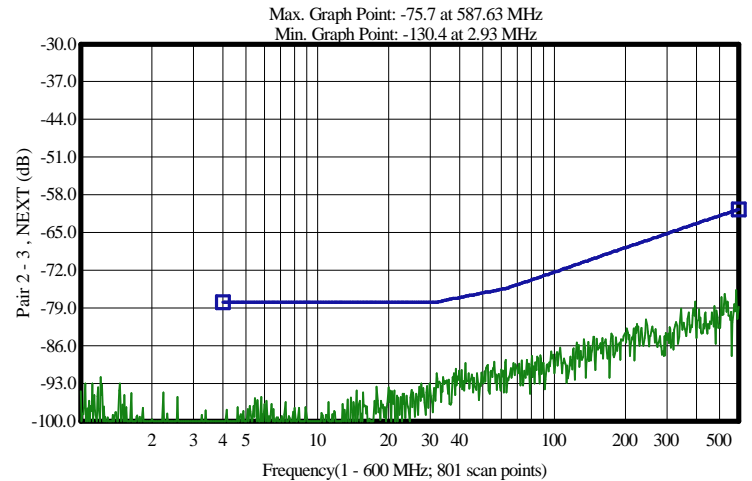
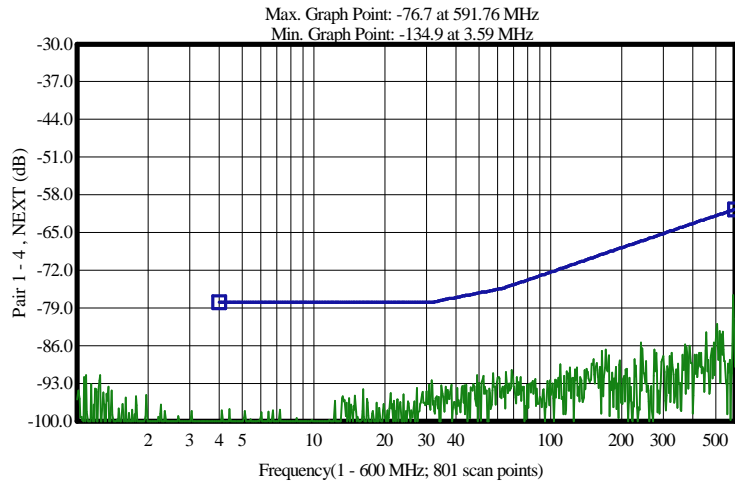
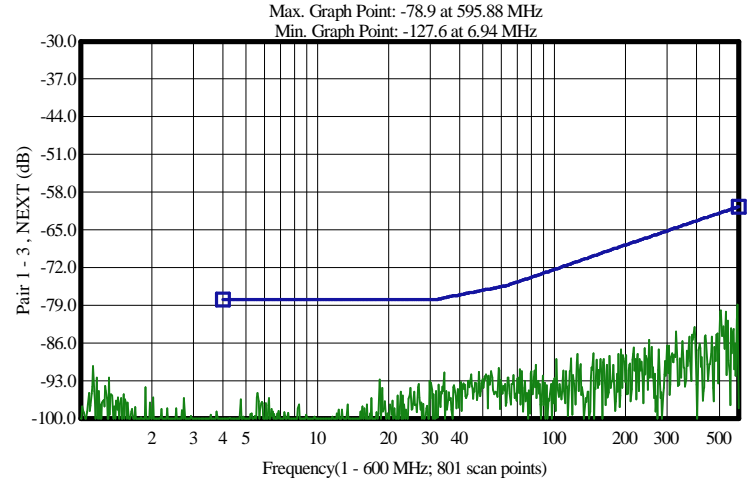
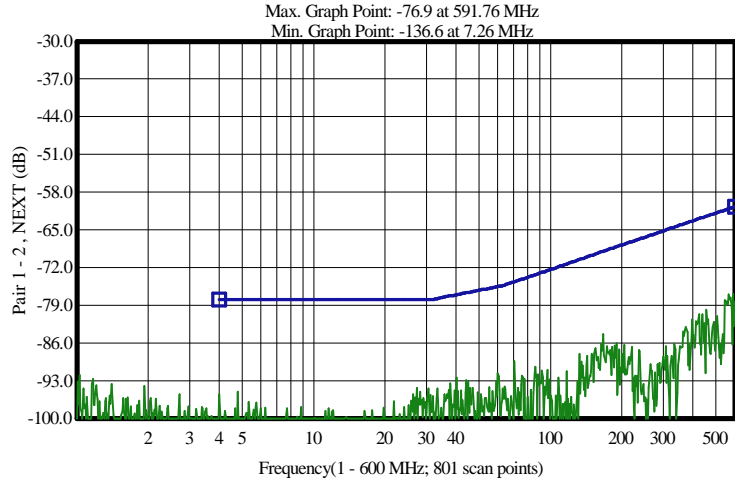
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### Summary and Graphic: Near End Crosstalk Loss (NEXT)

| Pair       | Spec (Min)(dB) | Measured(dB) | Margin (dB) | @ Frequency (MHz) | Test Result |
|------------|----------------|--------------|-------------|-------------------|-------------|
| Pair 1 - 2 | 74.6           | 89.4         | 14.8        | 70.51             | Passed      |
| Pair 1 - 3 | 77.6           | 91.5         | 13.9        | 34.32             | Passed      |
| Pair 1 - 4 | 78.0           | 92.5         | 14.5        | 31.42             | Passed      |
| Pair 2 - 3 | 76.9           | 89.3         | 12.4        | 42.29             | Passed      |
| Pair 2 - 4 | 78.0           | 91.6         | 13.6        | 29.34             | Passed      |
| Pair 3 - 4 | 78.0           | 91.7         | 13.7        | 29.80             | Passed      |



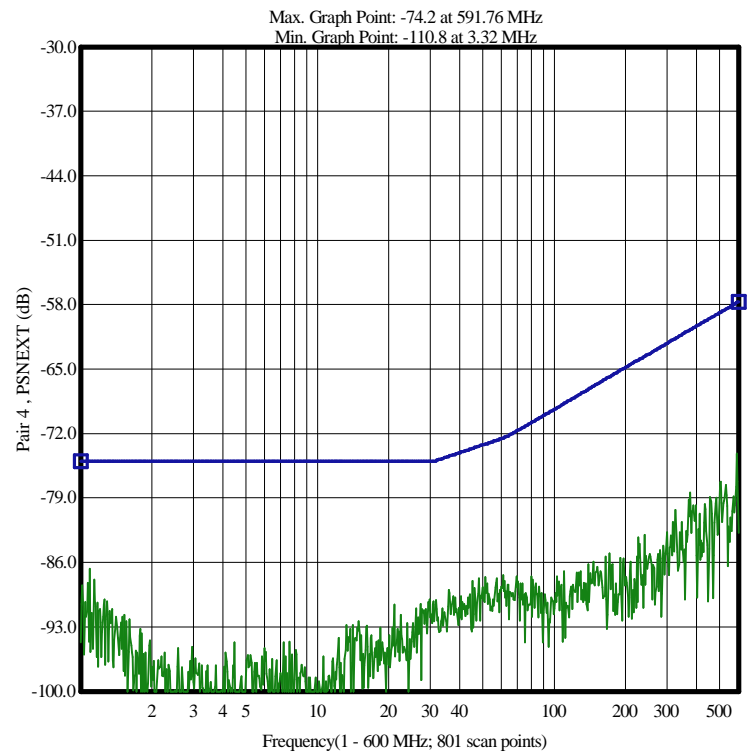
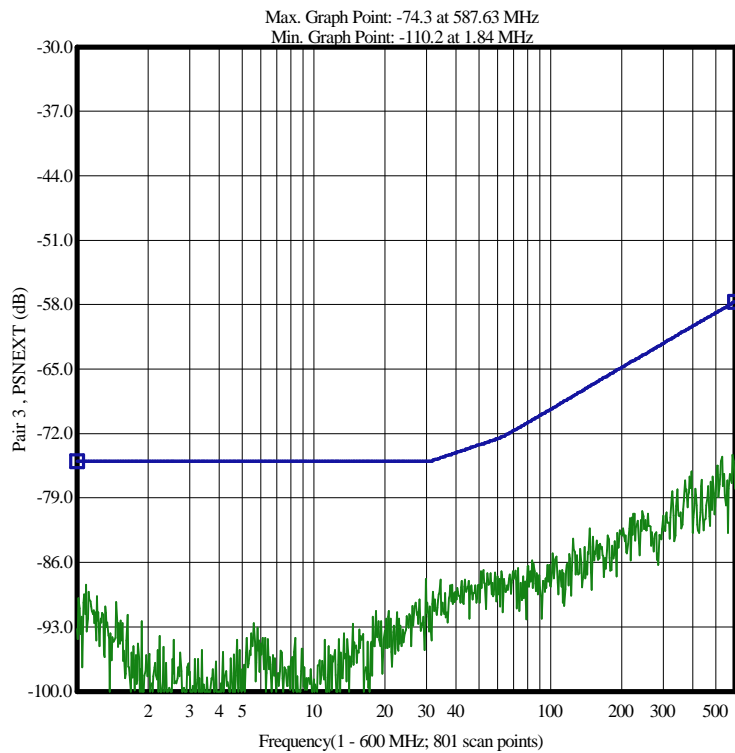
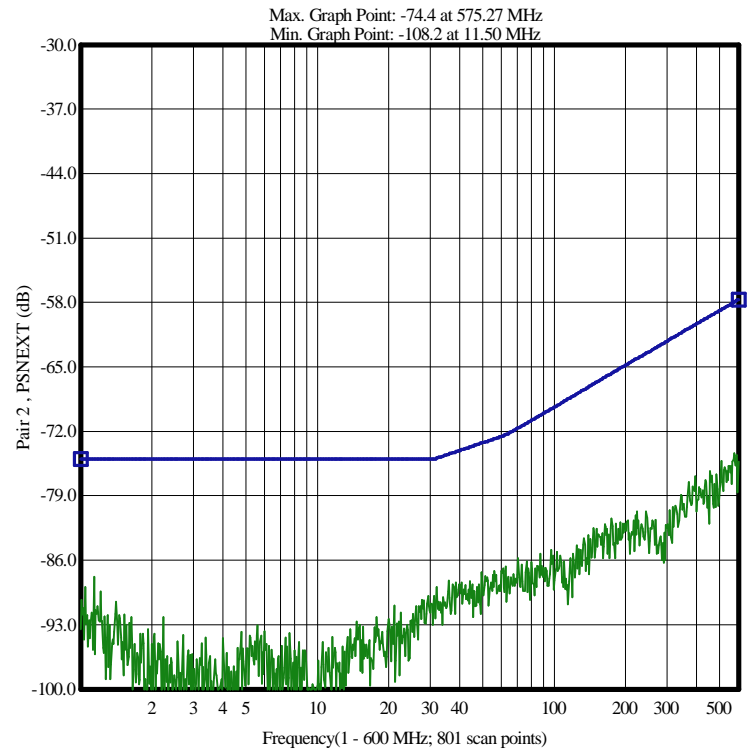
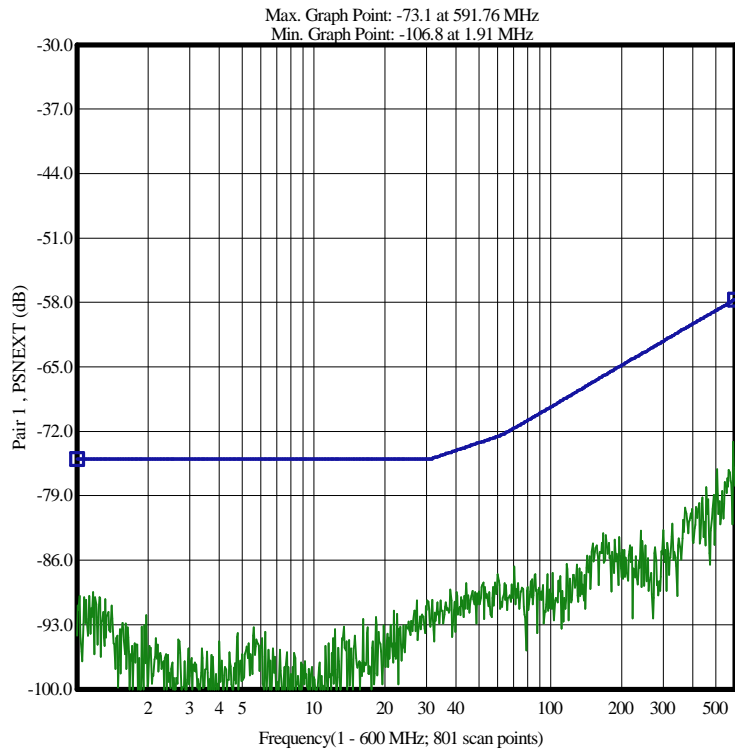
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Summary and Graphic: Power Sum NEXT(PSNEXT)

| Pair        | Spec (Min)(dB) | Measured(dB) | Margin (dB) | @ Frequency (MHz) | Test Result |
|-------------|----------------|--------------|-------------|-------------------|-------------|
| Pair 1 [25] | 75.0           | 89.5         | 14.5        | 1.17              | Passed      |
| Pair 2 [26] | 75.0           | 87.8         | 12.8        | 1.14              | Passed      |
| Pair 3 [27] | 75.0           | 87.8         | 12.8        | 29.80             | Passed      |
| Pair 4 [28] | 75.0           | 86.7         | 11.7        | 1.09              | Passed      |



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**NEXT SWEEP - Worst Margin (dB) (Negative sign indicates a failure.)**

| Dv/Rc | 2    | 3    | 4    |
|-------|------|------|------|
| 1     | 14.8 | 13.9 | 14.5 |
| 2     | ...  | 12.4 | 13.6 |
| 3     | ...  | ...  | 13.7 |

**NEXT SWEEP - Worst Frequency (MHz)**

| Dv/Rc | 2    | 3    | 4    |
|-------|------|------|------|
| 1     | 70.5 | 34.3 | 31.4 |
| 2     | ...  | 42.3 | 29.3 |
| 3     | ...  | ...  | 29.8 |

**Detail Discrete Frequencies ---Input Impedance(Zin)(Ohms)**

| Frequency   | 4.00   | 8.00   | 10.00  | 16.00  | 20.00  | 25.00  | 31.25  | 62.50  | 99.90  | 100.00 |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Max Spec    | 115.00 | 115.00 | 115.00 | 115.00 | 115.00 | 115.00 | 115.00 | 115.00 | 115.00 | 122.00 |
| Min Spec    | 85.00  | 85.00  | 85.00  | 85.00  | 85.00  | 85.00  | 85.00  | 85.00  | 85.00  | 78.00  |
| Pair 1 [25] | 99.85  | 99.16  | 100.41 | 100.73 | 100.93 | 99.26  | 99.97  | 99.82  | 102.49 | 102.52 |
| Pair 2 [26] | 98.25  | 96.88  | 98.52  | 98.11  | 99.52  | 97.87  | 98.10  | 99.49  | 99.90  | 99.87  |
| Pair 3 [27] | 100.21 | 99.10  | 100.60 | 100.50 | 99.78  | 99.19  | 99.83  | 100.50 | 99.34  | 99.43  |
| Pair 4 [28] | 99.68  | 97.25  | 97.82  | 98.73  | 99.95  | 98.58  | 98.33  | 99.71  | 101.41 | 101.42 |

**Continue:Input Impedance(Zin)(Ohms)**

| Frequency   | 125.00 | 155.00 | 199.90 | 200.00 | 250.00 |  |  |  |  |  |
|-------------|--------|--------|--------|--------|--------|--|--|--|--|--|
| Max Spec    | 122.00 | 122.00 | 122.00 | 132.00 | 132.00 |  |  |  |  |  |
| Min Spec    | 78.00  | 78.00  | 78.00  | 68.00  | 68.00  |  |  |  |  |  |
| Pair 1 [25] | 100.67 | 97.78  | 99.25  | 99.25  | 101.88 |  |  |  |  |  |
| Pair 2 [26] | 98.58  | 97.59  | 97.20  | 97.19  | 104.42 |  |  |  |  |  |
| Pair 3 [27] | 100.45 | 99.14  | 99.33  | 99.36  | 102.31 |  |  |  |  |  |
| Pair 4 [28] | 97.83  | 96.58  | 98.92  | 98.97  | 101.60 |  |  |  |  |  |

**Detail Discrete Frequencies ---Return Loss (RL)(dB)**

(Formula): $RL >= 20.0 + 5.0 * \text{Log}(f/1.0)$ ;  $25.0 + 0.0 * \text{Log}(f/1.0)$ ;  $25.0 + -7.0 * \text{Log}(f/20.0)$ ;  $0.0 + 10.0 * \text{Log}(f/600.0)$ ;  $0.0 + 0.0 * \text{Log}(f/1.0)$ ; Min=17.3

| Frequency   | 4.00 | 8.00 | 10.00 | 16.00 | 20.00 | 25.00 | 31.25 | 62.50 | 100.00 | 200.00 |
|-------------|------|------|-------|-------|-------|-------|-------|-------|--------|--------|
| Min Spec    | 23.0 | 24.5 | 25.0  | 25.0  | 25.0  | 24.3  | 23.6  | 21.5  | 20.1   | 18.0   |
| Pair 1 [25] | 35.3 | 39.7 | 42.3  | 43.0  | 35.8  | 37.0  | 43.0  | 55.5  | 36.9   | 31.7   |
| Pair 2 [26] | 36.2 | 35.4 | 40.2  | 39.4  | 39.6  | 37.0  | 37.3  | 51.1  | 36.8   | 32.3   |
| Pair 3 [27] | 38.7 | 37.3 | 37.0  | 52.2  | 38.1  | 36.5  | 47.1  | 44.0  | 35.1   | 39.4   |
| Pair 4 [28] | 35.4 | 33.9 | 36.1  | 39.4  | 41.3  | 38.0  | 38.7  | 37.1  | 40.0   | 37.1   |

**Continue:Return Loss (RL)(dB)**

| Frequency   | 250.00 | 300.00 | 350.00 | 400.00 | 500.00 | 600.00 |  |  |  |  |
|-------------|--------|--------|--------|--------|--------|--------|--|--|--|--|
| Min Spec    | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   |  |  |  |  |
| Pair 1 [25] | 30.5   | 28.6   | 33.8   | 31.4   | 31.1   | 26.5   |  |  |  |  |
| Pair 2 [26] | 30.9   | 36.8   | 36.8   | 31.1   | 24.8   | 25.8   |  |  |  |  |
| Pair 3 [27] | 30.7   | 30.1   | 37.9   | 43.5   | 27.0   | 24.3   |  |  |  |  |
| Pair 4 [28] | 28.2   | 30.4   | 29.8   | 34.2   | 42.8   | 33.5   |  |  |  |  |

**Detail Discrete Frequencies ---Return Loss (RL-FE)(dB)**

(Formula): $RL >= 20.0 + 5.0 * \text{Log}(f/1.0)$ ;  $25.0 + 0.0 * \text{Log}(f/1.0)$ ;  $25.0 + -7.0 * \text{Log}(f/20.0)$ ;  $0.0 + 10.0 * \text{Log}(f/600.0)$ ;  $0.0 + 0.0 * \text{Log}(f/1.0)$ ; Min=17.3

| Frequency   | 4.00 | 8.00 | 10.00 | 16.00 | 20.00 | 25.00 | 31.25 | 62.50 | 100.00 | 200.00 |
|-------------|------|------|-------|-------|-------|-------|-------|-------|--------|--------|
| Min Spec    | 23.0 | 24.5 | 25.0  | 25.0  | 25.0  | 24.3  | 23.6  | 21.5  | 20.1   | 18.0   |
| Pair 1 [25] | 35.1 | 40.3 | 44.9  | 51.5  | 49.2  | 48.2  | 46.1  | 40.0  | 35.4   | 32.5   |
| Pair 2 [26] | 32.9 | 39.9 | 38.0  | 40.9  | 41.2  | 36.6  | 48.7  | 40.9  | 31.7   | 27.7   |
| Pair 3 [27] | 33.3 | 41.7 | 44.1  | 44.8  | 47.3  | 46.4  | 42.8  | 41.7  | 36.6   | 31.2   |
| Pair 4 [28] | 37.7 | 42.5 | 51.9  | 53.3  | 46.0  | 49.1  | 43.4  | 32.5  | 38.9   | 31.5   |

**Continue:Return Loss (RL-FE)(dB)**

| Frequency   | 250.00 | 300.00 | 350.00 | 400.00 | 500.00 | 600.00 |  |  |  |  |
|-------------|--------|--------|--------|--------|--------|--------|--|--|--|--|
| Min Spec    | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   |  |  |  |  |
| Pair 1 [25] | 34.0   | 40.5   | 30.5   | 29.7   | 35.9   | 28.1   |  |  |  |  |
| Pair 2 [26] | 35.5   | 36.7   | 30.2   | 33.3   | 39.7   | 32.0   |  |  |  |  |
| Pair 3 [27] | 38.3   | 37.5   | 30.1   | 39.4   | 31.9   | 38.5   |  |  |  |  |
| Pair 4 [28] | 33.3   | 27.7   | 35.4   | 31.7   | 33.4   | 36.7   |  |  |  |  |

N/A = Not Applicable.  
--- = Disable/Bypassed Pair.

\* = Measured value out of spec.  
xxx = No entry.

\*\*\* = Measured value is invalid.  
ISTP

**Detail Discrete Frequencies ---Insertion Loss (IL)(dB/328.0 ft)(Curve Fit)@20C**

(Formula):  $IL \leq [ (1.800 * \sqrt{f}) + (0.010 * f) + (0.200 * \sqrt{f}) ] * 1.000 * \text{Stranded Factor}$  (Refer to manual)

|             |      |      |       |       |       |       |       |       |        |        |
|-------------|------|------|-------|-------|-------|-------|-------|-------|--------|--------|
| Frequency   | 4.00 | 8.00 | 10.00 | 16.00 | 20.00 | 25.00 | 31.25 | 62.50 | 100.00 | 125.00 |
| Max Spec    | 3.74 | 5.24 | 5.85  | 7.41  | 8.29  | 9.29  | 10.41 | 14.88 | 19.02  | 21.39  |
| Pair 1 [25] | 3.45 | 4.85 | 5.45  | 7.00  | 7.90  | 8.88  | 9.97  | 14.20 | 18.07  | 20.24  |
| Pair 2 [26] | 3.48 | 4.89 | 5.48  | 7.02  | 7.94  | 8.90  | 9.99  | 14.24 | 18.10  | 20.31  |
| Pair 3 [27] | 3.39 | 4.78 | 5.36  | 6.89  | 7.77  | 8.72  | 9.79  | 13.92 | 17.70  | 19.90  |
| Pair 4 [28] | 3.40 | 4.79 | 5.38  | 6.88  | 7.77  | 8.73  | 9.78  | 13.95 | 17.75  | 19.85  |

**Continue:Insertion Loss (IL)(dB/328.0 ft)(Curve Fit)@20C**

|             |        |        |        |        |        |        |        |        |  |  |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| Frequency   | 155.00 | 200.00 | 250.00 | 300.00 | 350.00 | 400.00 | 500.00 | 600.00 |  |  |
| Max Spec    | 23.97  | 27.46  | 30.97  | 34.18  | 37.18  | 40.00  | 45.25  | 50.09  |  |  |
| Pair 1 [25] | 22.71  | 25.63  | 28.87  | 31.84  | 34.60  | 37.21  | 42.03  | 46.47  |  |  |
| Pair 2 [26] | 22.64  | 25.94  | 29.26  | 32.30  | 35.14  | 37.82  | 42.79  | 47.38  |  |  |
| Pair 3 [27] | 22.18  | 25.23  | 28.43  | 31.37  | 34.10  | 36.67  | 41.45  | 45.85  |  |  |
| Pair 4 [28] | 22.25  | 25.40  | 28.63  | 31.60  | 34.36  | 36.96  | 41.79  | 46.24  |  |  |

**Detail Discrete Frequencies ---Near End Crosstalk Loss (NEXT)(dB)**

|            |       |       |       |       |       |       |       |       |        |        |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Frequency  | 4.00  | 8.00  | 10.00 | 16.00 | 20.00 | 25.00 | 31.25 | 62.50 | 100.00 | 200.00 |
| Min Spec   | 78.0  | 78.0  | 78.0  | 78.0  | 78.0  | 78.0  | 78.0  | 75.4  | 72.4   | 67.8   |
| Pair 1 - 2 | 95.7  | 103.6 | 104.2 | 106.6 | 102.5 | 100.4 | 96.6  | 97.0  | 102.9  | 91.0   |
| Pair 1 - 3 | 114.8 | 110.0 | 101.7 | 107.5 | 104.0 | 98.3  | 103.4 | 96.5  | 94.9   | 92.8   |
| Pair 1 - 4 | 103.1 | 104.0 | 105.4 | 99.1  | 99.3  | 96.4  | 96.4  | 94.6  | 93.9   | 94.1   |
| Pair 2 - 3 | 102.6 | 102.2 | 102.7 | 97.8  | 94.5  | 94.8  | 94.5  | 88.8  | 90.3   | 83.9   |
| Pair 2 - 4 | 107.0 | 115.4 | 107.3 | 103.4 | 100.1 | 100.3 | 95.1  | 92.8  | 97.8   | 91.2   |
| Pair 3 - 4 | 105.2 | 104.1 | 108.8 | 97.5  | 111.1 | 106.7 | 102.2 | 95.3  | 102.8  | 95.3   |

**Continue:Near End Crosstalk Loss (NEXT)(dB)**

|            |        |        |        |        |        |  |  |  |  |  |
|------------|--------|--------|--------|--------|--------|--|--|--|--|--|
| Frequency  | 250.00 | 300.00 | 400.00 | 500.00 | 600.00 |  |  |  |  |  |
| Min Spec   | 66.4   | 65.2   | 63.3   | 61.9   | 60.7   |  |  |  |  |  |
| Pair 1 - 2 | 96.5   | 88.9   | 84.6   | 84.5   | 78.3   |  |  |  |  |  |
| Pair 1 - 3 | 90.8   | 87.4   | 94.1   | 82.2   | 98.1   |  |  |  |  |  |
| Pair 1 - 4 | 91.9   | 88.8   | 98.4   | 84.0   | 89.9   |  |  |  |  |  |
| Pair 2 - 3 | 84.6   | 84.8   | 84.4   | 82.6   | 78.8   |  |  |  |  |  |
| Pair 2 - 4 | 92.2   | 89.1   | 88.4   | 82.6   | 88.0   |  |  |  |  |  |
| Pair 3 - 4 | 89.3   | 88.1   | 89.1   | 82.8   | 85.9   |  |  |  |  |  |

**Detail Discrete Frequencies ---Power Sum NEXT(PSNEXT)(dB)**

|             |      |       |       |       |       |       |       |       |       |        |
|-------------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Frequency   | 1.00 | 4.00  | 8.00  | 10.00 | 16.00 | 20.00 | 25.00 | 31.25 | 62.50 | 100.00 |
| Min Spec    | 75.0 | 75.0  | 75.0  | 75.0  | 75.0  | 75.0  | 75.0  | 75.0  | 72.4  | 69.4   |
| Pair 1 [25] | 94.2 | 94.9  | 99.2  | 98.7  | 97.9  | 96.5  | 93.3  | 92.7  | 90.9  | 90.4   |
| Pair 2 [26] | 93.5 | 94.6  | 99.4  | 99.6  | 95.9  | 92.5  | 92.7  | 90.5  | 86.8  | 88.7   |
| Pair 3 [27] | 93.2 | 100.5 | 98.1  | 98.7  | 94.3  | 93.9  | 92.8  | 93.3  | 87.3  | 88.6   |
| Pair 4 [28] | 94.7 | 100.0 | 100.4 | 102.2 | 94.5  | 96.3  | 94.4  | 91.9  | 89.3  | 91.3   |

**Continue:Power Sum NEXT(PSNEXT)(dB)**

|             |        |        |        |        |        |        |  |  |  |  |
|-------------|--------|--------|--------|--------|--------|--------|--|--|--|--|
| Frequency   | 200.00 | 250.00 | 300.00 | 400.00 | 500.00 | 600.00 |  |  |  |  |
| Min Spec    | 64.8   | 63.4   | 62.2   | 60.3   | 58.9   | 57.7   |  |  |  |  |
| Pair 1 [25] | 87.6   | 86.9   | 83.5   | 83.9   | 78.6   | 77.9   |  |  |  |  |
| Pair 2 [26] | 82.4   | 83.6   | 82.3   | 80.6   | 78.3   | 75.3   |  |  |  |  |
| Pair 3 [27] | 83.0   | 82.0   | 81.6   | 82.7   | 77.5   | 78.0   |  |  |  |  |
| Pair 4 [28] | 88.3   | 85.8   | 83.7   | 85.5   | 78.3   | 82.8   |  |  |  |  |

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