

| Layer | Stack up | Description | Copper Layer Type | Base Thickness | Processed Thickness | Resin Content | εr | Loss Tangent | Impedance ID |
|-------|----------|--------------|-------------------|----------------|---------------------|---------------|-------|--------------|--------------|
| 1 | | LPI Mask | | | 25.400 | | 4.000 | 0.0000 | |
| | | Copper Foil | Signal | 17.780 | 17.780 | | | | |
| 2 | | PrePreg 106 | | 50.000 | 50.000 | 60.000 | 4.200 | 0.0195 | |
| | | | Signal | 35.000 | 35.000 | | | | |
| 3 | | FR4 Core | | 75.000 | 75.000 | 60.000 | 4.200 | 0.0195 | |
| | | | Plane | 35.000 | 35.000 | | | | |
| | | PrePreg 1080 | | 65.670 | 65.670 | 60.000 | 4.200 | 0.0195 | |
| | | PrePreg 1651 | | 150.000 | 150.000 | 47.000 | 4.200 | 0.0195 | |
| | | PrePreg 1651 | | 150.000 | 150.000 | 47.000 | 4.200 | 0.0195 | |
| 4 | | | Signal | 35.000 | 35.000 | | | | |
| | | FR4 Core | | 300.000 | 300.000 | 46.000 | 4.200 | 0.0195 | |
| 5 | | | Signal | 35.000 | 35.000 | | | | |
| | | PrePreg 1651 | | 150.000 | 150.000 | 47.000 | 4.200 | 0.0195 | |
| | | PrePreg 1651 | | 150.000 | 150.000 | 47.000 | 4.200 | 0.0195 | |
| | | PrePreg 1080 | | 65.670 | 65.670 | 60.000 | 4.200 | 0.0195 | |
| 6 | | | Plane | 35.000 | 35.000 | | | | |
| | | FR4 Core | | 75.000 | 75.000 | 60.000 | 4.200 | 0.0195 | |
| 7 | | | Signal | 35.000 | 35.000 | | | | |
| | | PrePreg 106 | | 50.000 | 50.000 | 60.000 | 4.200 | 0.0195 | |
| 8 | | Copper Foil | Signal | 17.780 | 17.780 | | | | |
| | | LPI Mask | | | 25.400 | | 4.000 | 0.0000 | |

Copper Thickness = 245.560 | Dielectric Thickness = 1281.340 | Solder Mask Thickness = 50.800 | Stack Up Thickness = 1526.900 | Stack Up Thickness with Soldermask = 1577.700
 Stack Up Cost = 30.50

| Drill Image | 1st Layer | 2nd Layer | Column Position | Drill Type |
|-------------|-----------|-----------|-----------------|----------------|
| | 1 | 2 | 2 | Laser PTH |
| | 1 | 8 | 1 | Mechanical PTH |
| | 8 | 7 | 2 | Laser PTH |


| Supplier | Supplier Description | Description | Type | Stock Number | Stack Quantity | Unit Cost | Stack Cost | Total Quantity | Total Cost |
|---------------|----------------------|-------------|------------|--------------|----------------|-----------|------------|----------------|------------|
| Polar Samples | SM/001 | LPI Mask | SolderMask | 500-001 | 2 | 0.50 | 1.00 | 2 | 1.00 |
| Polar Samples | FO/001 | Copper Foil | Copper | 100-001 | 2 | 1.00 | 2.00 | 2 | 2.00 |
| Polar Samples | PP/006 | PrePreg 106 | Dielectric | 300-006 | 2 | 2.00 | 4.00 | 2 | 4.00 |
| Polar Samples | CO/005 | FR4 Core | FR4 | 400-005 | 2 | 2.00 | 4.00 | 2 | 4.00 |

| | | | | | |
|-------------------|-----------------------|-----------|---------------|-------------------|--------|
| StackName: Master | Version: | Revision: | Modification: | Date of Revision: | Editor |
| Date: | Associated Documents: | | | | |
| Author: | | | | | |
| Department: | | | | | |
| Site: | | | | | |



| Supplier | Supplier Description | Description | Type | Stock Number | Stack Quantity | Unit Cost | Stack Cost | Total Quantity | Total Cost |
|---------------|----------------------|--------------|------------|--------------|----------------|-----------|------------|----------------|------------|
| Polar Samples | PP/001 | PrePreg 1080 | Dielectric | 300-001 | 2 | 1.00 | 2.00 | 2 | 2.00 |
| Polar Samples | PP/004 | PrePreg 1651 | Dielectric | 300-004 | 4 | 1.00 | 4.00 | 4 | 4.00 |
| Polar Samples | CO/020 | FR4 Core | FR4 | 400-020 | 1 | 2.00 | 2.00 | 1 | 2.00 |
| | | | | | | | 19.00 | | 19.00 |

No. of Panels = 1 | Circuits Per Panel = 1 | Price Per Circuit = 19.00 |
 Notes

| | | | | | | |
|-------------|-----------------------|-----------|---------------|-------------------|--------|--|
| StackName: | Version: | Revision: | Modification: | Date of Revision: | Editor | Page 2/2  |
| Date: | Associated Documents: | | | | | |
| Author: | | | | | | |
| Department: | | | | | | |
| Site: | | | | | | |