

F4B-1/A1(Cu) Woven-glass PTFE Aluminum-clad (copper)Substrate

This product is based on the woven-glass PTFE laminate substrate but it varies only with a copper foil-clad on one side and an aluminum sheet-clad(copper sheet)on the other side of it.Thus,this makes it to be a microwave printed-circuit substrate with one side for use as a ground plate.

※Technical Specifications:

- 1、 Dimension(mm):400×400 ; 300×300
- 2、 Thickness of Groud Plate:At customers'choice.
- 3、 Flexibility Factory:Accord with the specifications of the substrate design deired.
- 4、 Electrical Specifications:

| Number | Item | Test Condition | | Unit | Target value |
|--------|-------------------------------|---|----------------------------|-------------------|----------------------------------|
| 1 | Gravity | In normal | | g/cm ² | 2.2 ~ 2.3 |
| 2 | Water Absorption | Soaking in Distilled water of20±2°C for 24 hours. | | % | ≤0.02 |
| 3 | Operating Temperature | High AND Low Temperature Oven | | °C | -50 ~ +260 |
| 4 | Heat Conduction Coefficient | | | Kcal/m.hour°C | 0.8 |
| 5 | Linear Expansion Coefficient | Arise of 96°C in Temperature/hour | | ×1 | ≤5×10 ⁻⁵ |
| 6 | Shrinkage | To be boiled in Boiling water for 2 hors. | | % | 0.0002 |
| 7 | Surface Insulation Resistance | 500V direct current | normal | M.Ω | ≥1×10 ⁻⁴ |
| | | | const damp and hot | | ≥1×10 ⁻³ |
| 8 | Bulk Resistance | In normal conditio | | MΩ.cm | ≥1×10 ⁻⁶ |
| | | const damp and hot | | | ≥1×10 ⁻⁵ |
| 9 | Resistance Between Plugs | 500V direct current | In normal conditio | MΩ | ≥1×10 ⁻⁵ |
| | | | In constant damp condition | | ≥1×10 ⁻³ |
| 10 | Surface Electric Strength | In normal conditio | | δ=1mm(kv/mm) | ≥1.2 |
| | | In constant damp condition | | | ≥1.1 |
| 11 | Dielectric Constant | 10GHz | | ε _r | 2.55 2.65 3.0 (±2%) 3.5 |
| 12 | Dielectric Constant Tangent | 10GHz | | tgδ | ≤1×10 ⁻³ |
| 13 | Heat Resistance | A | | °C/W | 2.0 |