# pro-bond 20FG2 VT-8728G2 RCF

UL Approval: E214381 Version: 04/03/2025

## Non-reinforced Hydrocarbon Material

VT-8728G2 RCF is non-reinforced hydrocarbon material, which eliminates the skew and variation in high speed digital and RF application with extremely low loss property (Df 0.0011@10GHz). It is designed to bond all circuit board materials and is more friendly to PCB process because of the thermosetting resin system.

## General Information

- Controlled resin flow for varient application
- Excellent through hole reliability
- Non-glass fabric reinforced, excellent electrical isotropic consistency
- Stable Dk over temperature
- Friendly for laser drill process
- Suitable for sequential laminations
- Halogen Free

## Application

- Avionics & Aerospace
- Radar & Sensors
- Antennas
- Filters, Couplers

## Storage Condition

| Properties | | Prepreg | |
|---|---|---|---|
| Storage Condition | Temperature | Below 23°C (73°F) | Below 5°C (41°F) |
| | Relative humidity | Below 55% RH | / |
| Shelf Life | | 3 months | 6 months |

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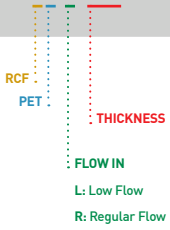
## Designation of RCF

| Trade Name | Name | Specification | Description |
|---|---|---|---|
| pro-bond 20FG2 | VT-8728G2 RCF | 8728G2-FT L-050 | pro-bond 20FG2 (VT-8728G2 RCF) Dk2.94 Die-50µm Low flow |




## RCF Type List

| Type | Specification | Thickness µm | Flow In | Size (Inches) |
|---|---|---|---|---|
| Low Flow and Regular Flow | 8728G2-FT L-050 | 50 | 30~60 | 18 x 24 |
| | 8728G2-FT L-060 | 60 | 30~60 | 18 x 12 |
| | 8728G2-FT L-075 | 75 | 40~80 | 20 x 24 |
| | 8728G2-FT R-125 | 125 | 150~200 | 20 x 12 |

Other thickness and resin flow option could be available upon request.

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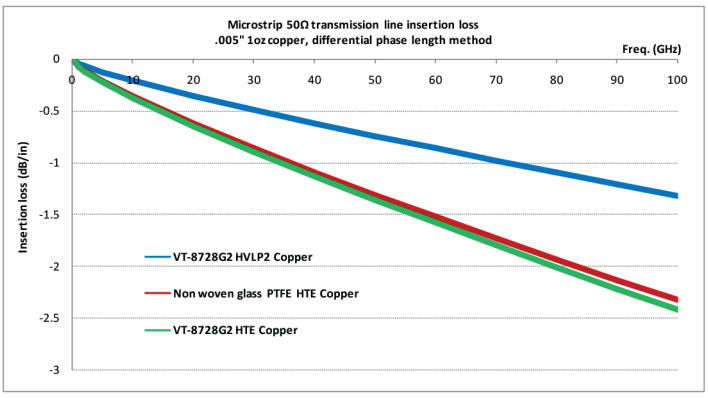
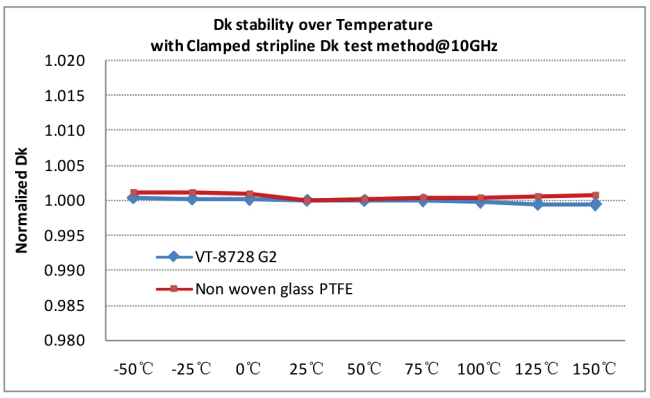
## Properties

| Item | | Test Method | Units | Typical Value |
|---|---|---|---|---|
| Dk | @ 10GHz | IPC-TM-650 2.5.5.5 | – | 2.94±0.05 |
| Df | @ 10GHz | IPC-TM-650 2.5.5.5 | – | 0.0011 |
| TcDk | (-50~150°C) | IPC-TM-650 2.5.5.5 | ppm/°C | -5 |
| Tg | DMA | IPC-TM-650 2.4.24.4 | °C | 220 |
| T288 | | IPC-TM-650 2.4.24 | min | >60 |
| Td | (5% WT. loss) | ASTM D3850 | °C | 440 |
| Peel strength | (1oz HTE) | IPC-TM-650 2.4.8 | Lb/in | 5.0 |
| X/Y-CTE | (50~150°C) | IPC-TM-650 2.4.41 | ppm/°C | 33 |
| Z-CTE | (50~150°C) | IPC-TM-650 2.4.24 | ppm/°C | 33 |
| Z-CTE | (50~260°C) | IPC-TM-650 2.4.24 | % | 1.2% |
| Thermal conductivity | | ASTM D5470 | W/mk | 0.6 |
| Moisture absorption | | IPC-TM-650 2.6.2.1 | % | 0.08 |
| Flammability | | UL 94 | °C | V-0 |

All test data provided are typical values and not intended to be specification values.

## Signal Integrity





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