

## Dielectric Constant(Dk) / Dissipation factor (Df) Table

### Core Data

| Standard/<br>Alternate | Thickness<br>(inch) | Thickness (mm) | Dielectric Constant (DK)/ Dissipation Factor (DF) |                |                |                |                |
|------------------------|---------------------|----------------|---|----------------|----------------|----------------|----------------|
|                        |                     |                | 2 GHz   | 5 GHz          | 10 GHz         | 15 GHz         | 20 GHz         |
| Standard               | 0.0025              | 0.064          | 3.00<br>0.0017                                    | 3.00<br>0.0017 | 3.00<br>0.0017 | 3.00<br>0.0017 | 3.00<br>0.0017 |
| Standard               | 0.0050              | 0.127          | 3.00<br>0.0017                                    | 3.00<br>0.0017 | 3.00<br>0.0017 | 3.00<br>0.0017 | 3.00<br>0.0017 |
| Standard               | 0.0075              | 0.191          | 3.00<br>0.0017                                    | 3.00<br>0.0017 | 3.00<br>0.0017 | 3.00<br>0.0017 | 3.00<br>0.0017 |
| Standard               | 0.0100              | 0.254          | 3.00<br>0.0017                                    | 3.00<br>0.0017 | 3.00<br>0.0017 | 3.00<br>0.0017 | 3.00<br>0.0017 |
| Standard               | 0.0125              | 0.318          | 3.00<br>0.0017                                    | 3.00<br>0.0017 | 3.00<br>0.0017 | 3.00<br>0.0017 | 3.00<br>0.0017 |
| Standard               | 0.0150              | 0.381          | 3.00<br>0.0017                                    | 3.00<br>0.0017 | 3.00<br>0.0017 | 3.00<br>0.0017 | 3.00<br>0.0017 |
| Standard               | 0.0200              | 0.508          | 3.00<br>0.0017                                    | 3.00<br>0.0017 | 3.00<br>0.0017 | 3.00<br>0.0017 | 3.00<br>0.0017 |
| Standard               | 0.0300              | 0.762          | 3.00<br>0.0017                                    | 3.00<br>0.0017 | 3.00<br>0.0017 | 3.00<br>0.0017 | 3.00<br>0.0017 |
| Standard               | 0.0600              | 1.524          | 3.00<br>0.0017                                    | 3.00<br>0.0017 | 3.00<br>0.0017 | 3.00<br>0.0017 | 3.00<br>0.0017 |

## Prepreg Dielectric Constant(Dk) / Dissipation factor (Df) Table

### Prepreg Data

| Glass Style | Resin Content % | Standard/ Alternate | Dielectric Constant (DK)/ Dissipation Factor (DF) |                |                |                |                |                |                |
|-------------|-----------------|---------------------|---|----------------|----------------|----------------|----------------|----------------|----------------|
|             |                 |                     | Thickness (inch)                                  | Thickness (mm) | 2 GHz          | 5 GHz          | 10 GHz         | 15 GHz         | 20 GHz         |
| 1035        | 73.0%           | Alternate           | 0.0025  | 0.064          | 2.97<br>0.0019 | 2.97<br>0.0019 | 2.97<br>0.0019 | 2.97<br>0.0019 | 2.97<br>0.0019 |
| 1067        | 72.0%           | Standard            | 0.0025  | 0.064          | 2.98<br>0.0019 | 2.98<br>0.0019 | 2.98<br>0.0019 | 2.98<br>0.0019 | 2.98<br>0.0019 |
| 1067        | 77.0%           | Standard            | 0.0032  | 0.081          | 2.91<br>0.0018 | 2.91<br>0.0018 | 2.91<br>0.0018 | 2.91<br>0.0018 | 2.91<br>0.0018 |
| 1078        | 70.0%           | Standard            | 0.0036  | 0.091          | 3.01<br>0.0019 | 3.01<br>0.0019 | 3.01<br>0.0019 | 3.01<br>0.0019 | 3.01<br>0.0019 |
| 1078        | 74.0%           | Standard            | 0.0042  | 0.107          | 2.95<br>0.0019 | 2.95<br>0.0019 | 2.95<br>0.0019 | 2.95<br>0.0019 | 2.95<br>0.0019 |

### NOTE

Revisions:

A-Original-4/17

B-Added Standard & Alternate construction-8/18

Standard-Commonly available with the best availability.

Alternate-Available, but not stocked with longer lead time

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