

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

Core Data

| Construction | Resin content % | Thickness (inch) | Thickness (mm) | Dielectric Constant (DK)/ Dissipation Factor (DF) | | | | | |
|--------------|-----------------|------------------|----------------|---|----------------|----------------|----------------|----------------|----------------|
| | | | | 100 MHz | 500 MHz | 1 GHz | 2 GHz | 5 GHz | 10 GHz |
| 1x106 | 73.0% | 0.0020 | 0.051 | 3.39 0.0112 | 3.37 0.0125 | 3.36 0.0143 | 3.34 0.0149 | 3.32 0.0152 | 3.31 0.0152 |
| 1x1067 | 70.0% | 0.0025 | 0.064 | 3.45 0.0112 | 3.43 0.0113 | 3.41 0.0127 | 3.40 0.0131 | 3.38 0.0134 | 3.37 0.0134 |
| 1x1080 | 57.0% | 0.0025 | 0.064 | 3.72 0.0110 | 3.70 0.0123 | 3.69 0.0140 | 3.67 0.0146 | 3.66 0.0149 | 3.65 0.0149 |
| 1x1080 | 63.0% | 0.0030 | 0.076 | 3.59 0.0106 | 3.57 0.0118 | 3.56 0.0133 | 3.54 0.0138 | 3.53 0.0141 | 3.52 0.0141 |
| 2x106 | 66.0% | 0.0035 | 0.089 | 3.53 0.0108 | 3.51 0.0120 | 3.50 0.0136 | 3.48 0.0141 | 3.46 0.0144 | 3.45 0.0144 |
| 1x3313 | 51.0% | 0.0035 | 0.089 | 3.86 0.0099 | 3.84 0.0108 | 3.83 0.0120 | 3.82 0.0125 | 3.80 0.0127 | 3.80 0.0127 |
| 1x1086 | 64.0% | 0.0035 | 0.089 | 3.57 0.0106 | 3.55 0.0118 | 3.54 0.0133 | 3.52 0.0139 | 3.50 0.0142 | 3.50 0.0142 |
| 1x3313 | 54.0% | 0.0040 | 0.102 | 3.79 0.0101 | 3.77 0.0111 | 3.76 0.0123 | 3.74 0.0128 | 3.73 0.0130 | 3.72 0.0130 |
| 2x106 | 71.0% | 0.0045 | 0.114 | 3.43 0.0098 | 3.41 0.0107 | 3.40 0.0118 | 3.38 0.0122 | 3.36 0.0125 | 3.35 0.0125 |
| 1x2116 | 49.0% | 0.0045 | 0.114 | 3.91 0.0098 | 3.89 0.0107 | 3.88 0.0118 | 3.87 0.0122 | 3.85 0.0125 | 3.85 0.0125 |
| 106/1067 | 71.0% | 0.0045 | 0.114 | 3.43 0.0110 | 3.41 0.0124 | 3.40 0.0141 | 3.38 0.0147 | 3.36 0.0150 | 3.35 0.0150 |
| 2x1080 | 57.0% | 0.0050 | 0.127 | 3.72 0.0112 | 3.70 0.0113 | 3.69 0.0127 | 3.67 0.0131 | 3.66 0.0134 | 3.65 0.0134 |
| 1x2116 | 54.0% | 0.0050 | 0.127 | 3.79 0.0101 | 3.77 0.0111 | 3.76 0.0123 | 3.74 0.0128 | 3.73 0.0130 | 3.73 0.0130 |
| 2x1067 | 70.0% | 0.0050 | 0.127 | 3.45 0.0110 | 3.43 0.0123 | 3.41 0.0140 | 3.40 0.0146 | 3.38 0.0149 | 3.37 0.0149 |
| 106/1080 | 67.0% | 0.0053 | 0.135 | 3.51 0.0108 | 3.49 0.0121 | 3.48 0.0137 | 3.46 0.0142 | 3.44 0.0145 | 3.43 0.0145 |
| 106/3313 | 56.0% | 0.0055 | 0.140 | 3.75 0.0102 | 3.72 0.0112 | 3.71 0.0126 | 3.70 0.0130 | 3.68 0.0133 | 3.68 0.0133 |
| 2x1080 | 63.0% | 0.0060 | 0.152 | 3.59 0.0106 | 3.57 0.0118 | 3.56 0.0133 | 3.54 0.0138 | 3.53 0.0141 | 3.53 0.0141 |
| 2x1086 | 64.0% | 0.0070 | 0.178 | 3.57 0.0106 | 3.55 0.0118 | 3.54 0.0133 | 3.52 0.0139 | 3.50 0.0142 | 3.50 0.0142 |

| | | | | | | | | | |
|-------------|-------|--------|-------|----------------|----------------|----------------|----------------|----------------|----------------|
| 2x3313 | 51.0% | 0.0070 | 0.178 | 3.86 0.0099 | 3.84 0.0108 | 3.83 0.0120 | 3.82 0.0125 | 3.80 0.0127 | 3.80 0.0127 |
| 2x3313 | 54.0% | 0.0080 | 0.203 | 3.79 0.0101 | 3.77 0.0111 | 3.76 0.0123 | 3.74 0.0128 | 3.73 0.0130 | 3.73 0.0130 |
| 2x2116 | 54.0% | 0.0100 | 0.254 | 3.79 0.0101 | 3.77 0.0111 | 3.76 0.0123 | 3.74 0.0128 | 3.73 0.0130 | 3.73 0.0130 |
| 3x3313 | 54.0% | 0.0120 | 0.305 | 3.79 0.0101 | 3.77 0.0111 | 3.76 0.0123 | 3.74 0.0128 | 3.73 0.0130 | 3.73 0.0130 |
| 2x2116/3313 | 54.0% | 0.0140 | 0.356 | 3.79 0.0101 | 3.77 0.0111 | 3.76 0.0123 | 3.74 0.0128 | 3.73 0.0130 | 3.73 0.0130 |
| 2x2116/7628 | 45.0% | 0.0160 | 0.406 | 4.01 0.0096 | 3.99 0.0104 | 3.98 0.0114 | 3.97 0.0118 | 3.96 0.0120 | 3.95 0.0120 |
| 3313/2x7628 | 43.0% | 0.0180 | 0.457 | 4.05 0.0095 | 4.03 0.0103 | 4.02 0.0112 | 4.00 0.0170 | 4.01 0.0118 | 3.99 0.0118 |

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

Prepreg Data

| Glass Style | Resin content % | Thickness (inch) | Thickness (mm) | Dielectric Constant (DK)/ Dissipation Factor (DF) | | | | | |
|-------------|-----------------|------------------|----------------|---|----------------|----------------|----------------|----------------|----------------|
| | | | | 100 MHz | 500 MHz | 1 GHz | 2 GHz | 5 GHz | 10 GHz |
| 106 | 75.0% | 0.0024 | 0.061 | 3.36 0.0113 | 3.33 0.0127 | 3.32 0.0145 | 3.30 0.0151 | 3.28 0.0155 | 3.27 0.0155 |
| 1067 | 70.0% | 0.0024 | 0.061 | 3.45 0.0110 | 3.43 0.0123 | 3.41 0.0140 | 3.40 0.0146 | 3.38 0.0149 | 3.38 0.0149 |
| 1080 | 65.0% | 0.0031 | 0.079 | 3.55 0.0107 | 3.53 0.0119 | 3.52 0.0135 | 3.50 0.0140 | 3.48 0.0143 | 3.48 0.0143 |
| 1080 | 68.0% | 0.0035 | 0.089 | 3.49 0.0109 | 3.47 0.0121 | 3.45 0.0138 | 3.44 0.0143 | 3.42 0.0147 | 3.41 0.0146 |
| 1086 | 64.0% | 0.0038 | 0.097 | 3.57 0.0106 | 3.55 0.0118 | 3.54 0.0134 | 3.52 0.0139 | 3.50 0.0142 | 3.50 0.0142 |
| 3313 | 55.0% | 0.0039 | 0.099 | 3.79 0.0101 | 3.77 0.0111 | 3.76 0.0123 | 3.74 0.0128 | 3.73 0.0130 | 3.72 0.0130 |
| 3313 | 59.0% | 0.0045 | 0.114 | 3.68 0.0104 | 3.66 0.0115 | 3.65 0.0129 | 3.63 0.0133 | 3.61 0.0136 | 3.61 0.0136 |
| 3313 | 61.0% | 0.0048 | 0.122 | 3.64 0.0105 | 3.61 0.0115 | 3.60 0.0129 | 3.59 0.0133 | 3.57 0.0136 | 3.56 0.0136 |
| 2116 | 57.0% | 0.0053 | 0.135 | 3.72 0.0102 | 3.70 0.0113 | 3.69 0.0127 | 3.67 0.0131 | 3.66 0.0134 | 3.65 0.0134 |
| 1652 | 50.0% | 0.0059 | 0.150 | 3.89 0.0098 | 3.87 0.0108 | 3.86 0.0119 | 3.84 0.0123 | 3.83 0.0126 | 3.82 0.0126 |

NOTE

Revisions:

A - Original Release - 4/17

B - Corrected 3313 prepreg RC% from 54% to 55% - 11/1

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