

Standard Thickness, Tolerance and Panel Size in (mm)

HIGH FREQUENCY LAMINATES

PRODUCT	STANDARD DIELECTRIC THICKNESS (WITHOUT THE CLADDING)	STANDARD CLADDINGS	STANDARD PANEL SIZES
RT/duroid® 5870 RT/duroid 5880	0.005" (0.127mm) ± 0.0005" 0.010" (0.254mm) ± 0.0007" 0.020" (0.508mm) ± 0.001" 0.031" (0.787mm) ± 0.001" 0.062" (1.570mm) ± 0.002" 0.125" (3.170mm) ± 0.004"	¼, ½, 1, 2 oz EDC, (8.5, 18, 35, 70 µm EDC) ½, 1, 2 oz Rolled CU (18, 35, 70 µm Rolled CU) 5 µm EDC foil is available on thin .005 - 0.020" thicknesses Thick metal AL, CU, BR	18"X12" (457mm X 305mm) 18"X24" (457mm X 610mm) 18"X36" (457mm X 915mm) 18"X48" (457mm X 1.219m)
RT/duroid 5880LZ	0.010" (0.256mm) ± 0.001 0.020" (0.508mm) ± 0.001 0.025" (0.625mm) ± 0.0015 0.030" (0.762mm) ± 0.002 0.040" (1.026mm) ± 0.002 0.050" (1.270mm) ± 0.003 0.100" (2.540mm) ± 0.005 Other thicknesses available in 10 mil increments.	½, 1 oz EDC (18 µm, 35 µm EDC)	12" X 18" (305 X 457mm) 24" X 18" (610 X 457mm) 24" X 54" (610 X 1.37m)
RT/duroid 6002 RT/duroid 6202	0.010" (0.254mm) ± 0.0007" 0.020" (0.508mm) ± 0.001" 0.030" (0.762mm) ± 0.001" 0.060" (1.524mm) ± 0.002"	¼, ½, 1, 2 oz EDC, (8.5, 18, 35, 70 µm EDC) ½, 1, 2 oz Rolled CU (18, 35, 70 µm Rolled CU) Thick metal AL, CU, BR	18"X12" (457mm X 305mm) 18"X24" (457mm X 610mm) 18"X36" (457mm X 915mm) 18"X48" (457mm X 1.219m)
RT/duroid 6006 RT/duroid 6010LM	0.005" (0.127mm) ± 0.0005" 0.010" (0.254mm) ± 0.0007" 0.025" (0.635mm) ± 0.001" 0.050" (1.270mm) ± 0.002" 0.075" (1.905mm) ± 0.004" 0.100" (2.540mm) ± 0.005"	¼, ½, 1, 2 oz EDC (8.5, 18, 35, 70 µm EDC) ½, 1, 2 oz Rolled CU (17, 35, 70 µm Rolled CU) 5 µm EDC foil is available on RT/duroid 6010.2LM 0.025" thickness Thick metal AL, CU, BR	18"X12" (457mm X 305mm) not available in 0.010" (0.254mm) 18"X24" (457 X 610mm) not available in 0.010" (0.254mm) 10"X10" (254mm X 254mm) 10"X20" (254mm X 508mm) 20"X20" (508mm X 508mm)
TMM® 3 TMM 4	0.015" (0.381mm) ± 0.0015" 0.020" (0.508mm) ± 0.0015" 0.030" (0.762mm) ± 0.0015" 0.060" (1.524mm) ± 0.0015" 0.125" (3.175mm) ± 0.0015"	¼, ½, 1, 2 oz EDC (8.5, 18, 35, 70 µm EDC) Thick metal AL, BR	18"X12" (457mm X 305mm) 18"X24" (457mm X 610mm)
TMM 6 TMM 10 TMM 10i TMM 13i	0.015" (0.381mm) ± 0.0015" 0.025" (0.635mm) ± 0.0015" 0.050" (1.270mm) ± 0.0015" 0.075" (1.905mm) ± 0.0015" 0.100" (2.540mm) ± 0.0015"	¼, ½, 1, 2 oz EDC (8.5, 18, 35, 70 µm EDC) Thick metal AL, BR	18"X12" (457mm X 305mm) 18"X24" (457mm X 610mm)
ULTRALAM® 2000	0.004" (0.101mm) ± 0.0004 0.0101" (0.256mm) ± 0.0009 0.0147" (0.373mm) ± 0.001 0.0190" (0.482mm) ± 0.001 0.030" (0.762mm) ± 0.001 0.060" (1.524mm) ± 0.002	½, 1, 2 oz EDC (8.5, 18, 35, 70 µm EDC) ½, 1, 2 oz Rolled CU (18, 35, 70 µm Rolled CU)	18" X 12" (457 X 305mm) 18" X 24" (457 X 610mm) 18" X 36" (457 X 915mm) 18" X 48" (457 X 1.219m)
ULTRALAM 3850	0.001" (0.025mm) ± 12.5% 0.002" (0.051mm) ± 12.5% 0.004" (0.101mm) ± 12.5%	½, 1 oz (18, 35 µm) EDC 9, 12 µm very low profile reverse treat EDC foil	18"X12" (457mm X 305mm) 18"X24" (457mm X 610mm)
XT/duroid™	0.002" (0.051mm) ± 12.5%	½ (18 µm) very low profile reverse treat EDC foil	18"X12" (457mm X 305mm) 18"X24" (457mm X 610mm)

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HIGH FREQUENCY LAMINATES

PRODUCT	STANDARD DIELECTRIC THICKNESS (WITHOUT THE CLADDING)	STANDARD CLADDINGS	STANDARD PANEL SIZES
RO2808™	0.0013 (0.025mm)	½ oz, (18 µm) EDC	18" X 12" (457mm X 305 mm) 20" X 16" (506mm X 405mm)
RO3003™ RO3035™ *RO3203™ *not available in 0.005" (0.127mm)	0.005" (0.127mm) ± 0.0005" 0.010" (0.254mm) ± 0.0007" 0.020" (0.508mm) ± 0.001" 0.030" (0.762mm) ± 0.0015" 0.060" (1.524mm) ± 0.003"	½, 1, 2 oz EDC (18, 35, 70 µm EDC) ½,1,2 oz Rolled CU (18, 35, 70 µm Rolled CU)	12" X 18" (305mm X 457mm) 24" X 18" (610mm X 457mm)
RO3006™ RO3010™ *RO3206™ *RO3210™ *not available in 0.005" (0.127mm) and 0.010" (0.254mm)	0.005" (0.127mm) ± 0.0005" 0.010" (0.254mm) ± 0.0007" 0.025" (0.635mm) ± 0.001" 0.050" (1.270mm) ± 0.002"	½, 1, 2 oz EDC (18, 35, 70 µm EDC) ½,1,2 oz Rolled CU (18, 35, 70 µm Rolled CU)	12" X 18" (305mm X 457mm) 24" X 18" (610mm X 457mm)
*RO4003C™ RO4360™	0.008" (0.203mm) ± 0.001" 0.012" (0.305mm) ± 0.001" 0.016" (0.406mm) ± 0.0015" 0.020" (0.508mm) ± 0.0015" 0.032" (0.813mm) ± 0.002" 0.060" (1.524mm) ± 0.004"	½, 1, 2 oz EDC (18, 35, 70 µm EDC) *½, 1 oz. LoPro™ Reverse Treated EDC Foil (18, 35 µm LoPro Reverse Treated EDC Foil)	12" X 18" (305mm X 457mm) 24" X 18" (610mm X 457mm) 48" X 36" (1.220m X 914mm)
RO4350B™	0.0040" (0.101mm) ± 0.0007" 0.0066" (0.168mm) ± 0.0007" 0.010" (0.254mm) ± 0.001" 0.0133" (0.338mm) ± 0.0015" 0.0166" (0.422mm) ± 0.0015" 0.020" (0.508mm) ± 0.0015" 0.030" (0.762mm) ± 0.002" 0.060" (1.524mm) ± 0.004"	½, 1, 2 oz EDC(18, 35, 70 µm EDC) ½, 1 oz. LoPro Reverse Treated EDC Foil (18, 35 µm LoPro Reverse Treated EDC Foil)	12" X 18" (305mm X 457mm) 24" X 18" (610mm X 457mm) 48" X 36" (1.220m X 914mm)
SYRON™ 7000	0.002" (0.051mm)± 12.5%	½ (18 µm) very low profile reverse treat EDC foil	18" X 12" (457mm X 305mm) 18" X 24" (457mm X 610mm)

BONDING FILM AND BOND-PLY

3001 Bonding Film Thermoplastic	.0015" (0.038 mm)	N/A	12" X 50' Roll (304 mm X 152.4 m)
ULTRALAM 3908 (LCP) Bond-Ply	.001" (0.025mm) .002" (0.051mm)	N/A	12" X 18" (305mm X 457mm) 24" X 18" (610mm X 457mm)
RO3003 Bond-Ply	.005" (0.127mm)	N/A	25.5" X18"
RO3010 Bond-Ply	.005" (0.127mm)	N/A	20" X 26"
RO4403™ Bond-Ply	.004" (0.102mm)	N/A	12" X 18" (305mm X 457mm)
RO4450B™ Bond-Ply	.0036" (0.091mm) .004" (0.102mm)	N/A	24" X 18" (610mm X 457mm) 48" X 36" (1.220m X 914mm)
RO4450F™ Bond-Ply	.004" (0.102mm)	N/A	

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ANTENNA GRADE LAMINATES

RO3730™	0.005" (0.127mm) ± 0.0005" 0.010" (0.254mm) ± 0.0007" 0.020" (0.508mm) ± 0.001" 0.030" (0.762mm) ± 0.0015" 0.060" (1.524mm) ± 0.003"	1 oz. Rolled CU (35 µm Rolled CU)	12" X 18" (305mm X 457mm) 24" X 18" (610mm X 457mm) 48" X 36" (1.220m X 914mm)
RO4533™	0.030" (0.762mm) ± 0.002" 0.040" (1.016mm) ± 0.002" 0.060" (1.524mm) ± 0.004"	½, 1 oz EDC (18, 35 µm EDC)	12" X 18" (305mm X 457mm) 24" X 18" (610mm X 457mm) 48" X 36" (1.220m X 914mm)
	0.0307" (0.762mm) ± 0.002" 0.0407" (1.016mm) ± 0.002" 0.0607" (1.524mm) ± 0.004"	½, 1 oz. LoPro Reverse treated EDC foil (18, 35 µm LoPro Reverse treated EDC foil)	
RO4534™	0.032" (0.813mm) ± 0.002" 0.040" (1.016mm) ± 0.002" 0.060" (1.524mm) ± 0.004"	½, 1 oz EDC (18, 35 µm EDC)	12" X 18" (305mm X 457mm) 24" X 18" (610mm X 457mm) 48" X 36" (1.220m X 914mm)
	0.0327" (0.813mm) ± 0.002" 0.0407" (1.016mm) ± 0.002" 0.0607" (1.524mm) ± 0.004"	½, 1 oz. LoPro Reverse treated EDC foil (18, 35 µm LoPro Reverse treated EDC foil)	
RO4535™	0.030" (0.762mm) ± 0.002" 0.040" (1.016mm) ± 0.002" 0.060" (1.524mm) ± 0.004"	½, 1 oz EDC (18, 35 µm EDC)	12" X 18" (305mm X 457mm) 24" X 18" (610mm X 457mm) 48" X 36" (1.220m X 914mm)
	0.0307" (0.762mm) ± 0.002" 0.0407" (1.016mm) ± 0.002" 0.0607" (1.524mm) ± 0.004"	½, 1 oz. LoPro Reverse treated EDC foil (18, 35 µm LoPro Reverse treated EDC foil)	
RO4730™	0.0327" (0.813mm) ± 0.002" 0.0607" (1.524mm) ± 0.004"	½, 1 oz. LoPro Reverse treated EDC foil (18, 35 µm LoPro Reverse treated EDC foil)	12" X 18" (305mm X 457mm) 24" X 18" (610mm X 457mm) 48" X 36" (1.220m X 914mm)

Other thicknesses and panel sizes may be available. Contact customer service or one of our international offices for more information.

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