

Rel. Permittivity Dielectric Const.) DK@10 GHz	Supplier	Grade/Name	Construction	Loss Tangent (Tan δ) Dissipation Factor Typical @ 10GHz	C.T.E. (ppm/°C)			MIL-S-13949	IPC-L-125A
					X	Y	Z		
2.1	Polyflon	CuFlon	P	0.0005				-	-
2.1	Rogers	RT/duroid 5890	P	0.0005				No longer available.	
2.15	Taconic	605	P, W	0.0010				GY	125/05
2.17, 2.20 \pm 0.02	Arlon	CuClad 217LX	P, W, CP	0.0009	29	28	246	GY	125/05
2.17, 2.20 \pm 0.02	Arlon	DiClad 880	P, W	0.0009	25	34	252	GY	125/05
2.17, 2.20 \pm 0.02	Arlon	Isoclad 917	P, R	0.0009	46	47	311	GP, GR	125/04
2.17 \pm 0.02	Metclad	MYST-217	P, W	0.0008	25	35	260	GY	125/05
2.17 \pm 0.02	Metclad	MYIM-217	P, W	0.0008	25	35	260	GY	125/05
2.17 \pm 0.02	Rogers	Ultralam 1217	P, W	0.0009	20	20	280	GY	125/05
2.17 \pm 0.02	Taconic	TLY-5A	P, W	0.0009	20	35	290	GY	125/05
2.20 \pm 0.02	Metclad	MYST-220	P, W	0.0009	25	35	260	GY	125/05
2.20 \pm 0.02	Metclad	MYIM-220	P, W	0.0009	25	35	260	GY	125/05
2.20 \pm 0.02	Rogers	RT/duroid 5880	P, R	0.0009	31	48	237	GP, GR	125/04
2.20 \pm 0.02	Taconic	TLY-5	P, W	0.0009	20	35	290	GY	125/05
2.20	Taconic	605	P, W	0.0010				GY	125/05
2.32 \pm 0.005	Polyflon	Polyguide		0.0002	108	108	108	-	-
2.33 \pm 0.02	Arlon	CuClad 233LX	P, W, CP	0.0013	23	24	194	GY	125/05
2.33 \pm 0.02	Arlon	DiClad 870	P, W	0.0013	17	29	217	GY	125/05
2.33 \pm 0.02	Arlon	Isoclad 933	P, R	0.0013	31	35	203	GP, GR	125/04
2.33 \pm 0.02	Metclad	MYST-233	P, W	0.0011	25	35	260	GY	125/05
2.33 \pm 0.02	Metclad	MYIM-233	P, W	0.0011	25	35	260	GY	125/05
2.33 \pm 0.02	Rogers	RT/duroid 5870	P, R	0.0012	22	28	173	GP, GR	125/04
2.33 \pm 0.02	Taconic	TLY-3	P, W	0.0013	20	35	290	GY	125/05
2.35	Taconic	605	P, W	0.0010				GY	125/05
2.4-2.6 \pm 0.05	Arlon	CuClad 250GT	P, W, CP	0.0010	18	19	177	GT	125/01
2.4-2.6 \pm 0.04	Arlon	CuClad 250GX	P, W, CP	0.0022	18	19	177	GX	125/02
2.4-2.6 \pm 0.05	Arlon	DiClad 522	P, W	0.0010	14	21	173	GT	125/01
2.4-2.6 \pm 0.04	Arlon	DiClad 527	P, W	0.0022	18	19	182	GX	125/02
2.4-2.6 \pm 0.04	Rogers	Ultralam 2000	P, W	0.0019	10	10	120	GX	125/02
2.4, 2.5, 2.6	Taconic	601, 602	P, W	0.0020				GT, GX	125/02
2.43 \pm 0.04	Metclad	MXST-243	P, W	0.0016	12	18	150	GX	125/02
2.43 \pm 0.04	Metclad	MXIM-243	P, W	0.0016	12	18	150	GX	125/02
2.45 \pm 0.04	Metclad	MXST-245	P, W	0.0016	12	18	150	GX	125/02
2.45 \pm 0.04	Metclad	MXIM-245	P, W	0.0016	12	18	150	GX	125/02
2.45 \pm 0.05	Taconic	TLT-0	P, W	0.0017	9-12		140	GT	125/01



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2.45 ± 0.04	Taconic	TLX-0	P, W	0.0017	9-12		140	GX	125/02
2.48 ± 0.04	Metclad	MXST-248	P, W	0.0017	12	18	150	GX	125/02
2.48 ± 0.04	Metclad	MXIM-248	P, W	0.0017	12	18	150	GX	125/02
2.50 ± 0.05	Arlon	AD 250	P, W	0.0030	12	15	95	-	-
2.50 ± 0.04	Metclad	MXST-250	P, W	0.0017	12	18	150	GX	125/02
2.50 ± 0.04	Metclad	MXIM-250	P, W	0.0017	12	18	150	GX	125/02
2.50 ± 0.04	Rogers	Ultralam 1250	P, W	0.0015	12	12	140	GX	125/02
2.50 ± 0.05	Taconic	TLT-9	P, W	0.0019	9-12		140	GT	125/01
2.50 ± 0.04	Taconic	TLX-9	P, W	0.0019	9-12		140	GX	125/02
2.55	Polyflon	NorCLAD		0.0030	53	53	53	-	-
2.55 ± 0.04	Metclad	MXST-255	P, W	0.0018	12	18	150	GX	125/02
2.55 ± 0.04	Metclad	MXIM-255	P, W	0.0018	12	18	150	GX	125/02
2.55 ± 0.05	Taconic	TLT-8	P, W	0.0021	9-12		140	GT	125/01
2.55 ± 0.04	Taconic	TLX-8	P, W	0.0021	9-12		140	GX	125/02
2.60 ± 0.04	Metclad	MXST-260	P, W	0.0019	12	18	150	GX	125/02
2.60 ± 0.04	Metclad	MXIM-260	P, W	0.0019	12	18	150	GX	125/02
2.60 ± 0.04	Metclad	MHST-260	P, C, W	0.0019	12	18	150	-	-
2.60 ± 0.05	Taconic	TLT-7	P, W	0.0023	9-12		140	GT	125/01
2.60 ± 0.04	Taconic	TLX-7	P, W	0.0023	9-12		140	GX	125/02
2.65 ± 0.05	Taconic	TLT-6	P, W	0.0025	9-12		140	GT	125/01
2.65 ± 0.04	Taconic	TLX-6	P, W	0.0025	9-12		140	GX	125/02
2.70 ± 0.05	Arlon	AD 270	P, W	0.0030	12	15	95	-	-
2.70 ± 0.04	Metclad	MXST-270	P, W	0.0020	12	18	150	GX	125/02
2.70 ± 0.04	Metclad	MXIM-270	P, W	0.0020	12	18	150	GX	125/02
2.70 ± 0.04	Metclad	MHST-270	P, C, W	0.0020	12	18	150	-	-
2.75 ± 0.05	Taconic	TLC-27	P, C, W	0.0030	9-12		70	-	-
2.80 ± 0.04	Metclad	MXST-280	P, W	0.0021	9	12	71	GX	125/02
2.80 ± 0.04	Metclad	MXIM-280	P, W	0.0021	9	12	71	GX	125/02
2.80 ± 0.04	Metclad	MHST-280	P, C, W	0.0021	9	12	71	-	-
2.92 ± 0.04	Rogers	RT/duroid 6002	P, C	0.0012	16	16	24	-	-
2.94 ± 0.04	Metclad	MXST-294	P, W	0.0022	9	12	71	GX	125/02
2.94 ± 0.04	Metclad	MXIM-294	P, W	0.0022	9	12	71	GX	125/02
2.94 ± 0.04	Metclad	MHST-294	P, C, W	0.0022	9	12	71	-	-
2.94 ± 0.04	Rogers	RT/duroid 6002	P, C	0.0012	16	16	24	-	-
2.94 Nominal	Arlon	CLTE	P, C, W	0.0025	10	12	40	-	125/06



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2.95 ± 0.05	Arlon	AD 295	P, W	0.0030	12	15	95	-	-
2.95 ± 0.05	Taconic	TLE-95	P, C, W	0.0028	9-12		70	-	-
3.00 ± 0.05	Arlon	AD 300	P, W	0.0030	12	15	95	-	-
3.00 ± 0.04	Metclad	MXST-300	P, W	0.0023	9	12	71	GX	125/02
3.00 ± 0.04	Metclad	MXIM-300	P, W	0.0023	9	12	71	GX	125/02
3.00 ± 0.04	Metclad	MHST-300	P, C, W	0.0023	9	12	71	-	-
3.0 ± 0.04	Rogers	RO3003	P, C	0.0013	17	17	24	-	-
3.00 ± 0.04	Rogers	Ultralam 1300	P, W	0.0030	9	9	70	GX	125/02
3.00 ± 0.05	Taconic	TLE-95	P, C, W	0.0028	9-12		70	-	-
3.00 ± 0.05	Taconic	TLC-30	P, C, W	0.0030	9-12		70	-	-
3.02 ± 0.04	Rogers	RO3203	P, C, W	0.0016	13	13	58	-	-
3.05 ± 0.05	GIL	GML 1000	Polyester	0.0040	40	34	80	-	-
3.05	Polyflon	Cu Clad ULTEM		0.0030	56	46	56	-	-
3.18 ± 0.04	Metclad	MXST-318	P, W	0.0024	9	12	71	GX	125/02
3.18 ± 0.04	Metclad	MXIM-318	P, W	0.0024	9	12	71	GX	125/02
3.18 ± 0.04	Metclad	MHST-318	P, C, W	0.0024	9	12	71	-	-
3.20 ± 0.10	Arlon	AD 320	P, W	0.0030	12	15	95	-	-
3.2 ± 0.05	Arlon	AR-320	P, W	0.0030	9	12	71	-	-
3.20 ± 0.04	Metclad	MXST-320	P, W	0.0024	9	12	71	GX	125/02
3.20 ± 0.04	Metclad	MXIM-320	P, W	0.0024	9	12	71	GX	125/02
3.20 ± 0.04	Metclad	MHST-320	P, C, W	0.0024	9	12	71	GX	125/02
3.20 ± 0.05	Taconic	TLC-32	P, C, W	0.0030	9-12		70	-	-
3.26 ± 0.05	GIL	MC5	Polyester	0.0140	26	26	315	-	-
3.26 ± 0.04	Metclad	MHST-326	P, C, W	0.0025	9	12	71	-	-
3.27 ± 0.016	Rogers	TMM 3	T, C	0.0020	16	16	20	-	-
3.28 ± 0.030	Arlon	25N	T, C, W	0.0024	17	17	70	.0065" incr.	-
3.30	Arlon	LNB	T, C, W					-	-
3.3-?	Nelco	N6000	T, W					-	-
3.37 ± 0.030	Arlon	25FR	T, C, W	0.0035	20	20	60	.0065"incr.	-
3.38 ± 0.04	Metclad	MHST-338	P, C, W	0.0025	9	12	71	-	-
3.38 ± 0.05	Rogers	RO4003	T, C, W	0.0022	17	17	24	.004" incr.	-
3.48 ± 0.04	Metclad	MHST-348	P, C, W	0.0030	9	12	71	-	-
3.48 ± 0.05	Rogers	RO4350	T, C, W	0.0040	17	17	24	.004"incr."	-
3.5 ± 0.15	Arlon	AR-350	P, C, R	0.0026	35	35	115	-	-
3.50	Taconic	RF-35	P, C, W	0.0018	19-24	64			



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					X	Y	Z		
3.5 - 4.0	Isola	Gigaver 210	T, W	0.0100				-	-
3.60 \pm 0.10	Arlon	AD 360	P, W	0.0030	12	15	95	-	-
3.8 - 4.2 Typical	G.E.	GETEK	T, W	0.0100	12	15	55	-	-
3.8 - 4.0	Isola	Gigaver 410	T, W	0.0070				-	-
4.5 \pm 0.15	Arlon	AR-450	P, C, R	0.0026	30	30	110	-	-
4.5 \pm 0.045	Rogers	TMM 4	T, C	0.0020	14	14	20	-	-
6.0 \pm 0.15	Arlon	AR-600	P, C, R	0.0030	12	14	62	-	-
6.0 \pm 0.08	Rogers	TMM 6	P, C	0.0023	16	16	20	-	-
6.15 \pm 0.15	Rogers	RO3006	P, C	0.0025	17	17	24	-	125/07
6.15 \pm 0.15	Rogers	RT/duroid 6006	P, C	0.0019	47	34	117	-	125/07
9.2 \pm 0.23	Rogers	TMM 10	T, C	0.0017	16	16	20	-	-
9.8 \pm 0.245	Rogers	TMM 10i	T, C	0.0015	16	16	20	-	-
10.0 Nominal	Arlon	AR-1000	P, C, R	0.0030	14	16	36	-	125/08
10.0 Nominal	Taconic	CER-10	P, C, W	0.0040	13-15	46	-	-	-
10.2, 10.8 \pm 0.25	Arlon	DiClad 810	P, C	0.0020	24	24	24	No longer available.	
10.2 \pm 0.4	Arlon	Epsilam 10	P, C	0.0029	40	43	46	No longer available.	
10.2 \pm 0.30	Rogers	RO3010	P, C	0.0035	17	17	24	-	125/08
10.2 \pm 0.5	Rogers	RO3210	P, C, W	0.0030	13	13	34	-	-
10.2/.5/.8 \pm 0.25	Rogers	RT/duroid 6010	P, C	0.0023	24	24	24	-	125/08
10.2 \pm 0.25	Rogers	RT/duroid 6010LM	P, C	0.0023	24	24	24	-	125/08