



QMTS2.E123995 - Polymeric Materials - Filament-wound Tubing, Industrial Laminates, Vulcanized Fiber, and Materials for Use in Fabricating Recognized Printed Wiring Boards - Component

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KINGBOARD LAMINATES HOLDINGS LTD

E123995

23/F., Delta House
No. 3 On Yiu Street
Shatin, N T Hong Kong

Industrial laminates:

Mtl Dsg	ANSI Type	Color	Build up		R.T.I.			H				Meets 746E Non-HAL	Meets 746E DSR
			Min Thk (mm)	Flame Class	Elec (°C)	Mech (°C)	H W I	H A I	V T R	C T I			
Industrial laminates furnished as sheets													
KB-150	XPC	NC, BK	0.71	HB	130	130	2	0	0	-	-	Yes	
			1.57	HB	130	130	1	0	1	4	-	Yes	
KB-2150	FR-2	NC	1.45	V-0	105	105	4	3	1	4	-	Yes	
KB-2150G	FR-2	TN	0.71	V-0	75	75	0	3	6	-	-	Yes	
			1.45	V-0	105	105	0	3	6	3	-	Yes	
KB-2150GC	FR-2	TN	0.71	V-0	75	75	0	4	6	-	-	-	
			1.45	V-0	105	105	0	3	6	0	-	Yes	
KB-3151S (with Adhesive)													
	FR-1	NC	1.45	V-0	130	130	0	0	-	0	-	Yes	
			0.71	V-0	130	130	0	0	-	-	-	Yes	
KB-3151S (without Adhesive)													
	FR-1	NC	1.45	V-0	130	130	3	3	4	4	-	Yes	
			0.71	V-0	130	130	3	3	4	-	-	Yes	
KB-3152	FR-1	NC	0.71	V-0	130	130	0	0	-	-	-	Yes	
			1.45	V-0	130	130	0	0	-	0	-	Yes	
KB-5150	CEM-1	NC	0.63	V-0	130	140	3	2	4	-	-	Yes	

			1.40	V-0	130	140	1	2	4	3	-	Yes
KB-5150&	CEM-1	NC	0.63	V-0	130	140	1	3	4	-	-	Yes
			1.40	V-0	130	140	1	3	4	0	-	Yes
KB-5252	CEM-1	NC	0.63	V-0	130	140	3	2	-	-	-	Yes
			1.40	V-0	130	140	1	2	-	3	-	Yes
KB-6150C	FR-4.0	NC	0.63	V-0	130	140	0	3	4	-	-	Yes
			1.40	V-0	130	140	0	2	4	0	-	Yes
KB-6160A	FR-4.0	YL	0.38	V-0	130	130	0	0	-	-	-	Yes
			0.63	V-0	130	140	0	3	4	-	-	Yes
			1.40	V-0	130	140	0	2	4	3	-	Yes
KB-6160C	FR-4.0	NC	0.38	V-0	130	130	0	0	-	-	-	Yes
			0.63	V-0	130	140	0	3	4	-	-	Yes
			1.40	V-0	130	140	0	2	4	0	-	Yes
KB-6160F	FR-4.0	NC	0.38	V-0	130	130	0	1	-	-	-	Yes
			0.63	V-0	130	140	0	1	-	-	-	Yes
			1.40	V-0	130	140	0	1	-	3	-	Yes
KB-6165	FR-4.0	YL	0.38	V-0	130	130	2	0	-	-	-	Yes
			0.63	V-0	130	140	0	3	4	-	-	Yes
			1.40	V-0	130	140	0	2	4	3	-	Yes
KB-6165G	FR-4.1	NC	0.05	V-0	120	100	0	3	-	-	Yes	Yes
			0.38	V-0	130	130	0	1	-	-	-	Yes
			0.63	V-0	130	140	0	1	-	-	-	Yes
			1.40	V-0	130	140	0	1	-	3	-	Yes
KB-6165GC	FR-4.1	NC	0.05	V-0	120	100	0	3	-	-	Yes	Yes
			0.38	V-0	130	130	0	1	-	-	-	Yes
			0.63	V-0	130	140	0	1	-	-	-	Yes
			1.40	V-0	130	140	0	1	-	0	-	Yes
KB-6165GT	FR-15.1	NC	0.38	V-0	140	140	0	1	-	-	Yes	Yes
			0.63	V-0	150	150	0	1	-	-	-	Yes
			1.40	V-0	150	150	0	1	-	0	-	Yes
KB-6165LE	FR-4.0	NC	0.38	V-0	130	130	0	1	-	-	-	Yes
			0.63	V-0	130	140	0	1	-	-	-	Yes
			1.40	V-0	130	140	0	1	-	3	-	Yes

KB-6168	FR-4.0	NC	0.38	V-0	130	130	0	3	-	-	-	Yes
			0.63	V-0	130	140	0	3	4	-	-	Yes
			1.40	V-0	130	140	0	2	4	3	-	Yes
KB-7150	CEM-3.0	NC	0.63	V-0	130	140	0	2	4	-	-	Yes
			1.40	V-0	130	140	0	2	4	3	-	Yes
KB-7150C	CEM-3.0	NC	0.63	V-0	130	140	0	2	4	-	-	Yes
			1.40	V-0	130	140	0	2	4	0	-	Yes
Industrial laminates furnished as sheets or rolls												
KB-5150A	CEM-1	NC	0.63	V-0	130	140	3	2	4	-	-	Yes
			1.40	V-0	130	140	1	2	4	2	-	Yes
KB-5150G	CEM-1	NC	0.63	V-0	130	140	3	2	4	-	-	Yes
			1.40	V-0	130	140	1	2	4	0	-	Yes
KB-5150H	CEM-1	NC	0.63	V-0	130	140	3	2	4	-	-	Yes
			1.40	V-0	130	140	1	2	4	2	-	Yes
KB-5150L	CEM-1	NC	0.63	V-0	130	140	3	2	4	-	-	Yes
			1.40	V-0	130	140	1	2	4	3	-	Yes
KB-616(X)	FR-4.0	YL	0.38	V-0	130	130	3	3	-	-	-	Yes
			0.63	V-0	130	140	0	3	4	-	-	Yes
			1.40	V-0	130	140	0	2	4	3	-	Yes
KB-6163F	FR-4.0	NC	0.38	V-0	130	130	1	1	-	-	-	Yes
			0.63	V-0	130	140	0	1	-	-	-	Yes
			1.40	V-0	130	140	0	1	-	3	-	Yes
KB-6164F	FR-4.0	NC	0.38	V-0	130	130	0	4	-	-	-	-
			0.63	V-0	130	140	0	2	-	-	-	Yes
			1.40	V-0	130	140	0	1	-	3	-	Yes
KB-6165F	FR-4.0	NC(YL)	0.38	V-0	130	130	3	3	-	-	-	Yes
			0.63	V-0	130	140	0	3	4	-	-	Yes
			1.40	V-0	130	140	0	2	4	3	-	Yes
KB-6167A	FR-4.0	NC	0.38	V-0	130	130	0	2	-	-	-	Yes
			0.63	V-0	130	140	0	2	4	-	-	Yes
			1.40	V-0	130	140	0	1	4	4	-	Yes
KB-6167F	FR-4.0	NC	0.38	V-0	130	130	0	3	-	-	-	Yes
			0.63	V-0	130	140	0	3	4	-	-	Yes

			1.40	V-0	130	140	0	2	4	3	-	Yes
KB-6167G	FR-4.1	NC	0.05	V-0	120	100	0	3	-	-	Yes	Yes
			0.38	V-0	130	130	0	1	-	-	-	Yes
			0.63	V-0	130	140	0	1	-	-	-	Yes
			1.40	V-0	130	140	0	1	-	0	-	Yes
KB-6167GMD	FR-4.1	NC	0.38	V-0	130	130	0	1	-	-	Yes	Yes
			0.63	V-0	130	140	0	1	-	-	-	Yes
			1.40	V-0	130	140	0	0	-	0	-	Yes
KB-6168LE	FR-4.0	NC	0.38	V-0	130	130	1	1	-	-	-	Yes
			0.63	V-0	130	140	0	1	-	-	-	Yes
			1.40	V-0	130	140	0	1	-	3	-	Yes
KB-7150T	CEM-3.0	NC	0.63	V-0	130	140	0	2	4	-	-	Yes
			1.40	V-0	130	140	0	2	4	0	-	Yes
Industrial laminates furnished as sheets, rods or tubes												
HF-140	FR-4.1	NC	0.38	V-0	130	130	0	2	-	-	Yes	Yes
			0.63	V-0	130	140	0	2	-	-	-	Yes
			1.40	V-0	130	140	0	2	-	3	-	Yes
KB-3150N	FR-1	NC	0.71	V-0	130	130	0	0	-	-	-	Yes
			1.45	V-0	130	130	-	-	-	3	-	Yes
KB-3150NU %	FR-1	NC	0.71	V-0	130	130	3	3	4	-	-	Yes
			1.45	V-0	130	130	3	3	4	4	-	Yes
KB-3151HS	FR-1	NC	0.71	V-0	130	130	0	0	4	-	-	Yes
			1.45	V-0	130	130	0	0	4	0	-	Yes
KB-3152C	FR-1	NC	0.71	V-0	130	130	0	0	4	-	-	Yes
			1.45	V-0	130	130	0	0	4	0	-	Yes
KB-3152S	FR-1	NC	0.71	V-0	130	130	0	0	4	-	-	Yes
			1.45	V-0	130	130	0	0	4	0	-	Yes
KB-3153*	FR-1	NC	0.71	V-0	130	130	0	0	4	-	-	Yes
			1.45	V-0	130	130	0	0	4	0	-	Yes
KB-5152	No ANSI	NC	0.60	V-0	-	-	-	-	-	-	-	-
			1.40	V-0	-	-	-	-	-	-	-	-
KB-6150	FR-4.0	NC	0.10	V-0	120	125	0	3	-	-	-	Yes
			0.63	V-0	130	140	0	3	4	-	-	Yes

			1.40	V-0	130	140	0	2	4	4	-	Yes
			0.38	V-0	130	130	0	3	-	-	-	Yes
KB-6162	No ANSI	NC	0.63	V-0	-	-	-	-	-	-	-	-
			1.40	V-0	-	-	-	-	-	-	-	-
KB-6167GLD	FR-4.1	NC	0.38	V-0	130	130	0	3	-	-	Yes	Yes
			0.63	V-0	130	140	0	3	-	-	-	Yes
			1.40	V-0	130	140	0	2	-	3	-	Yes
Industrial laminates												
EEL-128	FR-4.0	NC	0.38	V-0	130	130	3	0	-	-	-	-
			0.63	V-0	130	140	0	3	-	-	-	Yes
			1.40	V-0	130	140	0	2	-	3	-	Yes
EEL-145	FR-4.0	NC	0.38	V-0	130	130	3	0	-	-	-	-
			0.63	V-0	130	140	0	3	-	-	-	Yes
			1.40	V-0	130	140	0	2	-	3	-	Yes
KB-3151C (with Adhesive)												
	FR-1	NC	0.71	V-0	130	130	0	0	-	-	-	Yes
			1.45	V-0	130	130	-	-	-	0	-	Yes
KB-3151C (without Adhesive)												
	FR-1	NC	0.71	V-0	130	130	3	3	4	-	-	Yes
			1.45	V-0	130	130	3	3	4	4	-	Yes
KB-3151C175 (with Adhesive)												
	FR-1	NC	0.71	V-0	130	130	0	0	-	-	-	Yes
			1.45	V-0	130	130	-	-	-	3	-	Yes
KB-6155	FR-4.0	NC	0.38	V-0	130	130	0	3	-	-	-	Yes
			0.63	V-0	130	140	0	3	4	-	-	Yes
			1.40	V-0	130	140	0	2	4	4	-	Yes
KB-6165GLD	FR-4.1	NC	0.38	V-0	130	130	0	0	-	-	Yes	Yes
			0.63	V-0	130	140	0	0	-	-	-	Yes
			1.40	V-0	130	140	0	1	-	3	-	Yes
KB-6165GMD	FR-4.1	NC	0.38	V-0	130	130	0	0	-	-	Yes	Yes
			0.63	V-0	130	140	0	1	-	-	-	Yes
			1.40	V-0	130	140	0	1	-	2	-	Yes
KB-7152	CEM-3.0	NC	0.63	V-0	130	140	0	2	4	-	-	Yes

			1.40	V-0	130	140	0	2	4	3	-	Yes
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Ultrathin build ups:

Mtl Dsg	ANSI Type	Build Up			Laminate			Prepreg		
		Min Thk (mm)	TI Elec	TI Mech	Mtl Dsg	Thk (mic)	TI Elec	Mtl Dsg	Thk (mic)	TI Elec
EEL-128	FR-4.0	0.38	130	130	EEL-128	50	90	EP	50	90
EEL-145	FR-4.0	0.38	130	130	EEL-145	50	90	ETP	50	90
HF-140	FR-4.1	0.38	130	130	HF-140	50	90	PP-HF140	50	90
KB-6155	FR-4.0	0.38	130	130	KB-6155	50	90	KB-6055	50	90
KB-616(X)	FR-4.0	0.38	130	130	KB-6160, KB-6164	100	120	KB-6060, KB-6064	50	90
KB-6160A	FR-4.0	0.38	130	130	KB-6160A	50	90	KB-6060A	50	90
KB-6160C	FR-4.0	0.38	130	130	KB-6160C	50	90	KB-6060C	50	90
KB-6160F	FR-4.0	0.38	130	130	KB-6160F	50	90	KB-6060F	50	90
		0.45	130	130	KB-6160F	50	90	KB-6060F	50	90
		0.63	130	140	KB-6160F	50	90	KB-6060F	50	90
		1.40	130	140	KB-6160F	50	90	KB-6060F	50	90
KB-6163F	FR-4.0	0.38	130	130	KB-6163F	50	90	KB-6063F	50	90
		0.45	130	130	KB-6163F	50	90	KB-6063F	50	90
		0.63	130	140	KB-6163F	50	90	KB-6063F	50	90
		1.40	130	140	KB-6163F	50	90	KB-6063F	50	90
KB-6164F	FR-4.0	0.38	130	130	KB-6164F	50	90	KB-6064F	50	90
KB-6165	FR-4.0	0.38	130	130	KB-6165	50	90	KB-6065	50	90
KB-6165F	FR-4.0	0.38	130	130	KB-6165F	50	90	KB-6065F	50	90
KB-6165G	FR-4.1	0.38	130	130	KB-6165G	50	90	KB-6065G	50	90
		0.63	130	140	KB-6165G	50	90	KB-6065G	50	90
KB-6165GC	FR-4.1	0.38	130	130	KB-6165GC	50	90	KB-6065GC	50	90
		0.63	130	140	KB-6165GC	50	90	KB-6065GC	50	90
KB-6165GLD	FR-4.1	0.38	130	130	KB-6165GLD	65	90	KB-6065GLD	50	90
KB-6165GMD	FR-4.1	0.38	130	130	KB-6165GMD	65	90	KB-6065GMD	50	90
KB-6165GT	FR-15.1	0.38	140	140	KB-6165GT	50	90	KB-6065GT	50	90
		0.63	150	150	KB-6165GT	50	90	KB-6065GT	50	90

KB-6165LE	FR-4.0	0.38	130	130	KB-6165LE	50	90	KB-6065LE	50	90
		0.45	130	130	KB-6165LE	50	90	KB-6065LE	50	90
		0.63	130	140	KB-6165LE	50	90	KB-6065LE	50	90
		1.40	130	140	KB-6165LE	50	90	KB-6065LE	50	90
KB-6167A	FR-4.0	0.38	130	130	KB-6167A	100	120	KB-6067A	50	90
KB-6167F	FR-4.0	0.38	130	130	KB-6167F	100	90	KB-6067F	50	90
KB-6167G	FR-4.1	0.38	130	130	KB-6167G	50	90	KB-6067G	50	90
KB-6167GLD	FR-4.1	0.38	130	130	KB-6167GLD	65	90	KB-6067GLD	50	90
KB-6167GMD	FR-4.1	0.38	130	130	KB-6167GMD	65	90	KB-6067GMD	50	90
KB-6168	FR-4.0	0.38	130	130	KB-6168	50	90	KB-6068	50	90
KB-6168LE	FR-4.0	0.38	130	130	KB-6168LE	50	90	KB-6068LE	50	90
		0.45	130	130	KB-6168LE	50	90	KB-6068LE	50	90
		0.63	130	140	KB-6168LE	50	90	KB-6068LE	50	90
		1.40	130	140	KB-6168LE	50	90	KB-6068LE	50	90

Metal clad industrial laminates:

Metal Clad Dsg	Lam-inate Dsg	Pre-preg Dsg	ANSI Type	Bld up Min Thk (mm)	Clad Min Ext (mic)	Cond Max Ext (mic)	Thk Max Int (mic)	Max Area Dia (mm)	Max Flame Class	Max Oper Temp (°C)	Solder Temp (°C)	Lts Time (sec)
Metal clad industrial laminates for use in multilayer printed wiring boards with copper on one or both sides, furnished as sheets												
KB-6160A	KB-6160A	KB-6060A	FR-4.0	0.38	12	102	70	50.8	V-0	130	288	20
KB-6160C	KB-6160C	KB-6060C	FR-4.0	0.38	12	102	60	50.8	V-0	130	288	20
KB-6160F	KB-6160F	KB-6060F	FR-4.0	0.38	9	102	68	50.8	V-0	130	288	30
				0.45	12	102	102	50.8	V-0	130	288	30
KB-6163F	KB-6163F	KB-6063F	FR-4.0	0.38	9	102	68	50.8	V-0	130	288	30
				0.45	9	102	102	50.8	V-0	130	288	30
KB-6164F	KB-6164F	KB-6064F	FR-4.0	0.38	12	102	102	50.8	V-0	130	288	60
KB-6165	KB-6165	KB-6065	FR-4.0	0.38	12	102	54	50.8	V-0	130	288	60
KB-6165F	KB-6165F	KB-6065F	FR-4.0	0.38	12	102	102	50.8	V-0	130	288	60

				0.63	12	102	204	50.8	V-0	130	288	60
KB-6165G	KB-6165G	KB-6065G	FR-4.1	0.38	12	102	102	50.8	V-0	130	288	20
KB-6165GC	KB-6165GC	KB-6065GC	FR-4.1	0.38	12	102	102	50.8	V-0	130	288	20
KB-6165GT	KB-6165GT	KB-6065GT	FR-15.1	0.38	12	102	102	50.8	V-0	130	288	20
KB-6165LE	KB-6165LE	KB-6065LE	FR-4.0	0.38	9	102	68	50.8	V-0	130	288	30
				0.45	12	102	102	50.8	V-0	130	288	30
KB-6167F	KB-6167F	KB-6067F	FR-4.0	0.38	12	102	102	50.8	V-0	130	288	60
KB-6167G/KB-6067G												
	KB-6167G	KB-6067G	FR-4.1	0.38	12	102	102	50.8	V-0	130	288	20
KB-6168	KB-6168	KB-6068	FR-4.0	0.38	12	102	70	50.8	V-0	130	288	60
KB-6168LE	KB-6168LE	KB-6068LE	FR-4.0	0.38	9	102	68	50.8	V-0	130	288	30
				0.45	9	102	102	50.8	V-0	130	288	30
Metal clad industrial laminates for use in multilayer printed wiring boards with copper on one or both sides, furnished as sheets or rolls												
KB-616(X)	KB-6160, KB-6164	KB-6060, KB-6064	FR-4.0	0.38	17	102	35	50.8	V-0	130	288	30
KB-6167A	KB-6167A	KB-6067A	FR-4.0	0.38	17	102	35	50.8	V-0	130	288	30
Metal clad industrial laminates for use in multilayer printed wiring boards with copper on one or both sides, furnished as sheets, rods or tubes												
HF-140	HF-140	PP-HF140	FR-4.1	0.38	12	102	102	50.8	V-0	130	288	30
KB-6167GLD/KB-6067GLD, KB-6165GMD/KB-6065GMD, KB-6165GLD/KB-6065GLD and KB-6167GMD/KB-6067GMD												
	KB-6167GLD, KB-6165GMD, KB-6165GLD, KB-6167GMD	KB-6067GLD, KB-6065GMD, KB-6065GLD, KB-6067GMD	FR-4.1	0.38	12	102	102	50.8	V-0	130	288	30
Metal clad industrial laminates for use in multilayer printed wiring boards with copper on one or both sides,												
EEL-128	EEL-128	EP	FR-4.0	0.38	17	102	68	38.1	V-0	130	288	30
				0.63	17	102	68	50.8	V-0	130	288	30

EEL-145	EEL-145	ETP	FR-4.0	0.38	17	102	170	50.8	V-0	130	288	30
Metal clad industrial laminates for use in single layer printed wiring boards with copper on one or both sides, furnished as sheets												
KB-2150G	KB-2150G	-	FR-2	0.71	35	102	-	50.8	V-0	75	265	15
				1.45	35	102	-	38.1	V-0	105	265	15
KB-2150GC	KB-2150GC	-	FR-2	0.71	35	102	-	50.8	V-0	75	265	15
				1.45	35	102	-	50.8	V-0	105	265	15
KB-3152	KB-3152	-	FR-1	0.71	35	102	-	50.8	V-0	130	288	10
KB-5150	KB-5150	-	CEM-1	0.63	17	102	-	38.1	V-0	130	288	20
KB-5252	KB-5252	-	CEM-1	0.63	17	102	-	13	V-0	130	260	10
KB-6150	KB-6150	-	FR-4.0	0.63	17	102	-	50.8	V-0	130	288	20
KB-6150C	KB-6150C	-	FR-4.0	0.63	17	102	-	50.8	V-0	130	288	20
KB-616(X)	KB-6160, KB-6164	-	FR-4.0	0.38	17	102	-	50.8	V-0	130	288	30
KB-6160A	KB-6160A	-	FR-4.0	0.38	12	140	-	50.8	V-0	130	288	20
KB-6160C	KB-6160C	-	FR-4.0	0.38	12	102	-	50.8	V-0	130	288	20
KB-6160F	KB-6160F	-	FR-4.0	0.38	9	102	-	50.8	V-0	130	288	30
KB-6163F	KB-6163F	-	FR-4.0	0.38	9	102	-	50.8	V-0	130	288	30
KB-6164F	KB-6164F	-	FR-4.0	0.38	12	102	-	50.8	V-0	130	288	60
KB-6165	KB-6165	-	FR-4.0	0.38	12	102	-	50.8	V-0	130	288	60
KB-6165F	KB-6165F	-	FR-4.0	0.38	12	102	-	50.8	V-0	130	288	60
KB-6165G	KB-6165G	-	FR-4.1	0.05	17	102	-	50.8	V-0	100	288	20
				0.38	17	102	-	50.8	V-0	130	288	20
KB-6165GC	KB-6165GC	-	FR-4.1	0.05	17	102	-	50.8	V-0	100	288	20
				0.38	17	102	-	50.8	V-0	130	288	20

KB-6165GT	KB-6165GT	-	FR-15.1	0.38	17	102	-	50.8	V-0	130	288	20
KB-6165LE	KB-6165LE	-	FR-4.0	0.38	9	102	-	50.8	V-0	130	288	30
KB-6167A	KB-6167A	-	FR-4.0	0.38	17	102	-	50.8	V-0	130	288	30
KB-6167F	KB-6167F	-	FR-4.0	0.38	12	102	-	50.8	V-0	130	288	60
KB-6167G	KB-6167G	-	FR-4.1	0.05	17	102	-	50.8	V-0	100	288	20
				0.38	17	102	-	50.8	V-0	130	288	20
KB-6168	KB-6168	-	FR-4.0	0.38	12	102	-	50.8	V-0	130	288	60
KB-6168LE	KB-6168LE	-	FR-4.0	0.38	9	102	-	50.8	V-0	130	288	30
KB-7150	KB-7150	-	CEM-3.0	0.63	17	102	-	50.8	V-0	130	290	20
KB-7150C	KB-7150C	-	CEM-3.0	0.63	17	102	-	50.8	V-0	130	288	20
KB-7150T	KB-7150T	-	CEM-3.0	0.63	17	102	-	50.8	V-0	130	288	20
Metal clad industrial laminates for use in single layer printed wiring boards with copper on one or both sides, furnished as sheets, rods or tubes												
HF-140	HF-140	-	FR-4.1	0.38	12	102	-	50.8	V-0	130	288	30
KB-3152C	KB-3152C	-	FR-1	0.71	34	102	-	50.8	V-0	130	260	10
KB-3152S	KB-3152S	-	FR-1	0.71	34	102	-	50.8	V-0	130	260	10
KB-3153*	KB-3153	-	FR-1	0.71	34	102	-	50.8	V-0	130	260	10
KB-6167GLD,KB-6165GMD,KB-6165GLD,KB-6167GMD												
	KB-6167GLD, KB-6165GMD, KB-6165GLD, KB-6167GMD	-	FR-4.1	0.38	12	102	-	50.8	V-0	130	288	30
Metal clad industrial laminates for use in single layer printed wiring boards with copper on one or both sides,												
EEL-128	EEL-128	-	FR-4.0	0.38	17	102	-	38.1	V-0	130	288	30
				0.63	17	102	-	50.8	V-0	130	288	30
EEL-145	EEL-145	-	FR-4.0	0.38	17	102	-	50.8	V-0	130	288	30

KB-3151C*	KB-3151C	-	FR-1	0.71	17	102	-	50.8	V-0	130	260	10
KB-3151S	KB-3151S	-	FR-1	0.71	17	102	-	38.1	V-0	130	260	10
KB-5150A	KB-5150A	-	CEM-1	0.63	17	102	-	50.8	V-0	130	288	20
KB-5150H	KB-5150H	-	CEM-1	0.63	17	102	-	50.8	V-0	130	288	20
KB-5150L	KB-5150L	-	CEM-1	0.63	17	102	-	50.8	V-0	130	260	10
KB-6155	KB-6155	-	FR-4.0	0.38	12	102	-	50.8	V-0	130	288	60
KB-7152	KB-7152	-	CEM-3.0	0.63	17	102	-	50.8	V-0	130	288	20
Metal clad industrial laminates for use in single layer printed wiring boards with copper on one side only, furnished as sheets												
KB-1150	KB-150	-	XPC	0.71	35	117	-	25.4	HB	130	260	10
KB-5150	KB-5150	-	CEM-1	0.63	35	102	-	50.8	V-0	130	260	10
KB-5150G	KB-5150G	-	CEM-1	0.63	17	102	-	50.8	V-0	130	288	10
KB-5252	KB-5252	-	CEM-1	0.63	17	102	-	50.8	V-0	130	288	10
Metal clad industrial laminates for use in single layer printed wiring boards with copper on one side only, furnished as sheets, rods or tubes												
KB-3150N	KB-3150NU %	-	FR-1	0.71	17	102	-	50.8	V-0	130	260	10
KB-3151HS	KB-3151HS	-	FR-1	0.71	34	102	-	50.8	V-0	130	260	10
Metal clad industrial laminates for use in multilayer printed wiring boards with copper on one or both sides,												
KB-6155	KB-6155	KB-6055	FR-4.0	0.38	12	102	70	50.8	V-0	130	288	60

Metal clad industrial laminates (Flammability Only Recognition):

Metal Clad Dsg	Lam-inate Dsg	Pre-preg Dsg	ANSI Type	Bld up	Clad Cond Thk			Max	Max Flame Class	Max Oper Temp (°C)	Solder Temp (°C)	Lts Time (sec)
				Min Thk (mm)	Min Ext (mic)	Max Ext (mic)	Max Int (mic)	Area Dia (mm)				
Metal clad industrial laminates for use in single layer printed wiring boards with copper on one or both sides, furnished as sheets												
KB-5152	KB-5152	-	No ANSI	0.60	-	-	-	-	V-0	-	260	10

KB-6162	KB-6162	-	No ANSI	0.63	-	-	-	-	V-0	-	288	30
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% - Corresponds to Unclad values without adhesive. For declad values (single sided) see corresponding grade "KB-3150N"

& - Corresponds to Declad values with adhesive. For Unclad values see corresponding grade designation.

* - With adhesive

X - may be 0, 4

Marking: Company name and model designation.

Last Updated on 2021-07-09

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