



FEATURES

Multiple Case Sizes - High Voltage – High Current

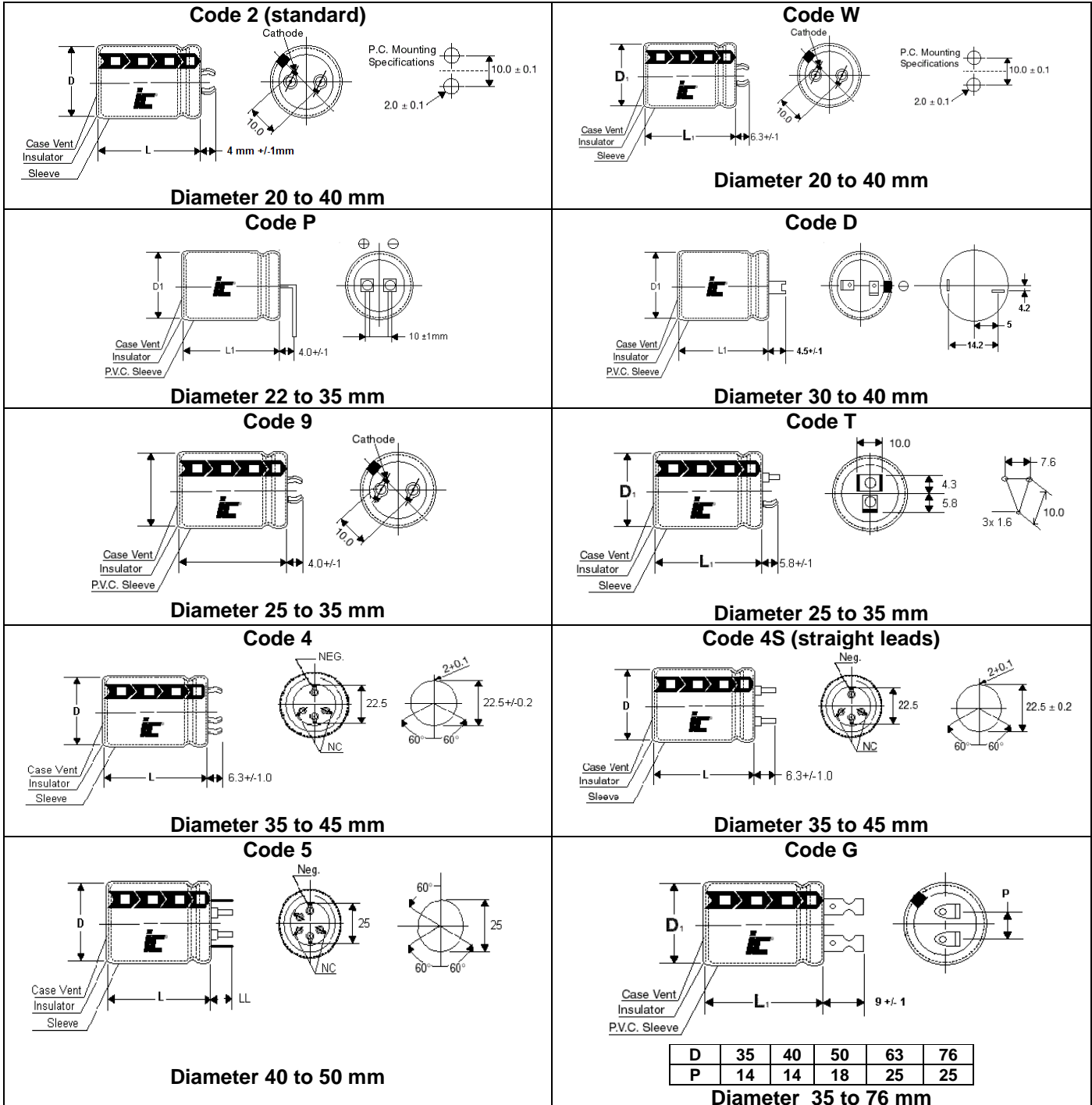
APPLICATIONS

Filtering – Switching Power Supplies

Operating Temperature Range		-40°C to +105°C								-25°C to +105°C						
Capacitance Tolerance		+20% at 120 Hz, 20°C														
Surge Voltage	WVDC	10	16	25	35	50	63	80	100	160	200	250	350	400	450	
	SVDC	13	20	32	44	63	79	100	120	200	250	300	400	450	500	
Dissipation Factor	WVDC	10	16	25	35	50	63	80	100	160	200	250	350	400	450	
	Tan δ	.55	.5	.45	.4	.35	.3	.25	.2	.15	.15	.15	.25	.25	.25	
		For capacitance values above 33000µF								(capacitance-33000 µF)*0.1						
		The add following to the Dissipation factors values above								10000 µF						
Leakage current		5 Minutes														
		3√CV or 5000uA, Whichever is less														
Low Temperature Stability Impedance Ratio (120 Hz)	WVDC	10	16	25	35	50	63	80	100	160	200	250	350	400	450	
	-25°C to +20°C	6	6	6	6	4	3	3	3	8	8	8	8	8	8	
	-40°C to +20°C	15	15	15	15	15	15	15	15	-	-	-	-	-	-	
Load Life	3000 hours at 105°C with rated WVDC and ripple current applied															
	Capacitance Change	<20% of initial measured value														
	Dissipation Factor	<200% of maximum specified value														
Shelf Life	1000 hours at 85°C with no voltage applied															
	Capacitance Change	<20% of initial measured value														
	Dissipation Factor	<200% of maximum specified value														
Ripple Current Multipliers	Leakage Current	<100% of maximum specified value														
	Frequency (Hz)															
	WVDC	60			120			1k			10k+					
	10 to 100	0.9			1			1.15			1.25					
	160 to 250	0.8			1			1.25			1.47					
350 to 450	0.8			1			1.3			1.47						



Lead Style Options



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+105°C, Extended Life, 3000 hours

WVDC	Capacitance (µF)	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Maximum RMS Ripple Current (A) 120 Hz, +105°C	Dims DxL (mm)
35	18000	189LMB035M2EF	36.8414	4.51	35x40
35	22000	229LMB035M2EG	30.143	5.24	35x45
50	1500	158LMB050M2AC	386.835	1.29	20x25
50	1500	158LMB050M2BC	386.835	1.05	22x25
50	1800	188LMB050M2AD	322.362	1.53	20x30
50	1800	188LMB050M2BC	322.362	1.5	22x25
50	2200	228LMB050M2AE	263.751	1.72	20x35
50	2200	228LMB050M2BD	263.751	1.31	22x30
50	2200	228LMB050M2CC	263.751	1.25	25x25
50	2700	278LMB050M2AE	214.908	1.82	20x35
50	2700	278LMB050M2BD	214.908	1.8	22x30
50	2700	278LMB050M2CC	214.908	1.8	25x25
50	3300	338LMB050M2AF	175.834	2.01	20x40
50	3300	338LMB050M2BE	175.834	1.94	22x35
50	3300	338LMB050M2CD	175.834	1.98	25x30
50	3300	338LMB050M2DC	175.834	1.5	30x25
50	3900	398LMB050M2BF	148.783	2.23	22x40
50	3900	398LMB050M2CD	148.783	2.2	25x30
50	3900	398LMB050M2DC	148.783	2.2	30x25
50	4700	478LMB050M2BG	123.458	2.54	22x45
50	4700	478LMB050M2CE	123.458	2.58	25x35
50	4700	478LMB050M2DD	123.458	2.53	30x30
50	4700	478LMB050M2EC	123.458	1.86	35x25
50	5600	568LMB050M2BH	103.617	2.8	22x50
50	5600	568LMB050M2CF	103.617	2.8	25x40
50	5600	568LMB050M2DD	103.617	2.76	30x30
50	6800	688LMB050M2CG	85.3312	3.32	25x45
50	6800	688LMB050M2DE	85.3312	3.34	30x35
50	6800	688LMB050M2ED	85.3312	3.25	35x30
50	8200	828LMB050M2DF	70.7625	3.71	30x40
50	8200	828LMB050M2EE	70.7625	3.85	35x35
50	10000	109LMB050M2DG	58.0252	4.04	30x45
50	10000	109LMB050M2DH	58.0252	4.51	30x50
50	10000	109LMB050M2EF	58.0252	4.02	35x40
50	12000	129LMB050M2EG	48.3544	4.56	35x45
50	15000	159LMB050M2EH	38.6835	4.73	35x50
63	1000	108LMB063M2AC	497.359	1.21	20x25
63	1000	108LMB063M2BC	414.466	0.91	22x25
63	1200	128LMB063M2AD	414.466	1.43	20x30
63	1200	128LMB063M2BC	414.466	1.4	22x25
63	1500	158LMB063M2AE	331.573	1.52	20x35
63	1500	158LMB063M2BD	331.573	1.43	22x30
63	1500	158LMB063M2CC	331.573	1.42	25x25
63	1800	188LMB063M2AE	276.311	1.72	20x35
63	1800	188LMB063M2BD	276.311	1.7	22x30
63	1800	188LMB063M2CC	276.311	1.7	25x25
63	2200	228LMB063M2BE	226.072	1.8	22x35
63	2200	228LMB063M2BF	226.072	2.01	22x40
63	2200	228LMB063M2CD	226.072	1.35	25x30
63	2200	228LMB063M2CE	226.072	2	25x35
63	2200	228LMB063M2CD	226.072	1.73	30x25
63	2700	278LMB063M2BF	184.207	2.2	22x40
63	2700	278LMB063M2CE	184.207	2.2	25x35
63	2700	278LMB063M2DC	184.207	2.2	30x25
63	3300	338LMB063M2BG	150.715	2.31	22x45
63	3300	338LMB063M2CE	150.715	2.23	25x35
63	3300	338LMB063M2DD	150.715	2.19	30x30
63	3300	338LMB063M2EC	150.715	1.73	35x25

WVDC	Capacitance (µF)	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Maximum RMS Ripple Current (A) 120 Hz, +105°C	Dims DxL (mm)
63	3900	398LMB063M2CF	127.528	2.57	25x40
63	3900	398LMB063M2DE	127.528	2.7	30x35
63	4700	478LMB063M2CH	105.821	2.93	25x50
63	4700	478LMB063M2DE	105.821	2.9	30x35
63	4700	478LMB063M2DF	105.821	3	30x40
63	4700	478LMB063M2ED	105.821	2.81	35x30
63	5600	568LMB063M2DF	88.8141	3.22	30x40
63	5600	568LMB063M2EE	88.8141	3.3	35x35
63	6800	688LMB063M2DG	73.1411	3.71	30x45
63	6800	688LMB063M2DH	73.1411	3.86	30x50
63	6800	688LMB063M2EF	73.1411	3.68	35x40
63	8200	828LMB063M2EG	60.6536	4.43	35x45
63	10000	109LMB063M2EH	49.7359	4.64	35x50
80	820	827LMB080M2BC	05.446	1.04	22x25
80	1000	108LMB080M2AD	414.466	1.24	20x30
80	1000	108LMB080M2BC	414.466	1.2	22x25
80	1000	108LMB080M2CC	414.466	0.99	25x25
80	1200	128LMB080M2BD	345.388	1.5	22x30
80	1200	128LMB080M2CC	345.388	1.43	25x25
80	1500	158LMB080M2AE	276.311	1.57	20x35
80	1500	158LMB080M2BD	276.311	1.59	22x30
80	1500	158LMB080M2BE	276.311	1.6	22x35
80	1500	158LMB080M2CC	276.311	1.59	25x25
80	1500	158LMB080M2CD	276.311	1.63	25x30
80	1500	158LMB080M2DC	276.311	1.21	30x25
80	1800	188LMB080M2AF	230.259	1.77	20x40
80	1800	188LMB080M2BE	230.259	1.79	22x35
80	1800	188LMB080M2CD	230.259	1.71	25x30
80	2200	228LMB080M2BF	188.394	2.03	22x40
80	2200	228LMB080M2BH	188.394	2.04	22x50
80	2200	228LMB080M2CE	188.394	1.98	25x35
80	2200	228LMB080M2DC	188.394	1.98	30x25
80	2200	228LMB080M2DD	188.394	2.05	30x30
80	2200	228LMB080M2EC	188.394	1.61	35x25
80	2700	278LMB080M2BG	153.506	2.39	22x45
80	2700	278LMB080M2CF	153.506	2.35	25x40
80	2700	278LMB080M2DD	153.506	2.35	30x30
80	3300	338LMB080M2CG	125.596	2.74	25x45
80	3300	338LMB080M2DE	125.596	2.75	30x35
80	3300	338LMB080M2ED	125.596	2.7	35x30
80	3900	398LMB080M2CH	106.273	2.92	25x50
80	3900	398LMB080M2DF	106.273	2.82	30x40
80	3900	398LMB080M2ED	106.273	2.97	35x30
80	4700	478LMB080M2DG	88.1843	3.34	30x45
80	4700	478LMB080M2DH	88.1843	3.5	30x50
80	4700	478LMB080M2EE	88.1843	3.38	35x35
80	4700	478LMB080M2EF	88.1843	3.5	35x40
80	5600	568LMB080M2DH	74.0118	3.8	30x50
80	5600	568LMB080M2EF	74.0118	3.8	35x40
80	6800	688LMB080M2EG	60.9509	3.9	35x45
80	6800	688LMB080M2EH	60.9509	4.12	35x50
80	8200	828LMB080M2EH	50.5446	4.2	35x50
100	560	567LMB100M2AC	740.118	0.95	20x25
100	680	687LMB100M2AD	487.607	1.15	20x30
100	680	687LMB100M2BC	487.607	1.09	22x25
100	820	827LMB100M2AE	404.357	1.31	20x35
100	820	827LMB100M2BD	404.357	1.4	22x30
100	1000	108LMB100M2AE	331.573	1.43	20x35

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+105°C, Extended Life, 3000
hours

WVDC	Capacitance (µF)	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Maximum RMS Ripple Current (A) 120 Hz, +105°C	Dims DxL (mm)
250	470	477LMB250M2BH	529.106	1.66	22x50
250	470	477LMB250M2CF	529.106	1.61	25x40
250	470	477LMB250M2DD	529.106	1.59	30x30
250	470	477LMB250M2EC	529.106	1.63	35x25
250	560	567LMB250M2CG	444.071	1.85	25x45
250	560	567LMB250M2DE	444.071	1.85	30x35
250	560	567LMB250M2EC	444.071	1.78	35x25
250	680	687LMB250M2CH	365.705	2.14	25x50
250	680	687LMB250M2DE	365.705	2.04	30x35
250	680	687LMB250M2DF	365.705	2	30x40
250	680	687LMB250M2ED	365.705	2.1	35x30
250	820	827LMB250M2DG	303.268	2.49	30x45
250	820	827LMB250M2EE	303.268	2.45	35x35
250	1000	108LMB250M2DH	248.68	2.7	30x50
250	1000	108LMB250M2EF	248.68	2.56	35x40
250	1200	128LMB250M2EG	207.233	2.85	35x45
250	1500	158LMB250M2EH	165.786	3.28	35x50
350	68	686LMB350M2AC	6095.09	0.47	20x25
350	82	826LMB350M2AD	5054.46	0.54	20x30
350	82	826LMB350M2BC	5054.46	0.43	22x25
350	100	107LMB350M2AD	4144.66	0.6	20x30
350	100	107LMB350M2BC	4144.66	0.69	22x25
350	100	107LMB350M2BD	4144.66	0.51	22x30
350	100	107LMB350M2CC	4144.66	0.51	25x25
350	120	127LMB350M2AE	3453.88	0.68	20x35
350	120	127LMB350M2BD	3453.88	0.55	22x30
350	120	127LMB350M2CC	3453.88	0.55	25x25
350	150	157LMB350M2AF	2763.11	0.78	20x40
350	150	157LMB350M2BE	2763.11	0.66	22x35
350	150	157LMB350M2CD	2763.11	0.67	25x30
350	150	157LMB350M2DC	2763.11	0.69	30x25
350	180	187LMB350M2BF	2302.59	0.77	22x40
350	180	187LMB350M2CD	2302.59	0.92	25x30
350	180	187LMB350M2CE	2302.59	0.78	25x35
350	180	187LMB350M2DC	2302.59	0.9	30x25
350	180	187LMB350M2DD	2302.59	0.82	30x30
350	220	227LMB350M2BG	2302.59	1.05	22x45
350	220	227LMB350M2CE	2302.59	1.04	25x35
350	220	227LMB350M2CF	1130.36	0.91	25x40
350	220	227LMB350M2DD	2302.59	0.9	30x30
350	220	227LMB350M2EC	2302.59	0.92	35x25
350	270	277LMB350M2BH	1535.06	1.16	22x50
350	270	277LMB350M2CF	1535.06	1.18	25x40
350	270	277LMB350M2CG	1535.06	1.07	25x45
350	270	277LMB350M2DD	1535.06	1.17	30x30
350	270	277LMB350M2DE	1535.06	1.06	30x35
350	270	277LMB350M2EC	1535.06	1.17	35x25
350	270	277LMB350M2ED	1535.06	1.1	35x30
350	330	337LMB350M2CG	1255.96	1.29	25x45
350	330	337LMB350M2CH	753.574	1.23	25x50
350	330	337LMB350M2DE	1255.96	1.34	30x35
350	330	337LMB350M2DF	53.57	1.24	30x40
350	330	337LMB350M2ED	1255.96	1.21	35x30
350	390	397LMB350M2CH	1062.73	1.51	25x50
350	390	397LMB350M2DF	1062.73	1.51	30x40
350	390	397LMB350M2DG	637.64	1.42	30x45
350	390	397LMB350M2EE	1062.73	1.4	35x35
350	470	477LMB350M2DG	881.842	1.65	30x45

WVDC	Capacitance (µF)	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Maximum RMS Ripple Current (A) 120 Hz, +105°C	Dims DxL (mm)
350	470	477LMB350M2EE	881.842	1.69	35x35
350	470	477LMB350M2EF	529.106	1.62	35x40
350	560	567LMB350M2DH	740.118	1.85	30x50
350	560	567LMB350M2ED	740.118	1.91	35x30
350	560	567LMB350M2EF	740.118	1.9	35x40
350	560	567LMB350M2EG	740.118	1.86	35x45
350	680	687LMB350M2EG	609.509	2.2	35x45
400	56	566LMB400M2AC	7401.18	0.51	20x25
400	68	686LMB400M2AD	6095.09	0.56	20x30
400	68	686LMB400M2BC	6095.09	0.53	22x25
400	82	826LMB400M2AD	5054.46	0.64	20x30
400	82	826LMB400M2BC	5054.46	0.64	22x25
400	82	826LMB400M2BD	5054.46	0.56	22x30
400	82	826LMB400M2CC	5054.46	0.56	25x25
400	100	107LMB400M2AE	4144.66	0.7	20x35
400	100	107LMB400M2BD	4144.66	0.68	22x30
400	100	107LMB400M2CC	4144.66	0.68	25x25
400	120	127LMB400M2BE	3453.88	0.72	22x35
400	120	127LMB400M2BF	3453.88	0.75	22x40
400	120	127LMB400M2CC	3453.88	0.73	25x25
400	120	127LMB400M2CD	3453.88	0.76	25x30
400	150	157LMB400M2BF	2763.11	0.85	22x40
400	150	157LMB400M2CD	2763.11	0.85	25x30
400	150	157LMB400M2DC	2763.11	0.9	30x25
400	180	187LMB400M2BG	2302.59	0.98	22x45
400	180	187LMB400M2CE	2302.59	1	25x35
400	180	187LMB400M2DD	2302.59	0.99	30x30
400	180	187LMB400M2EC	2302.59	1.01	35x25
400	220	227LMB400M2BH	2302.59	1.1	22x50
400	220	227LMB400M2CF	2302.59	1.15	25x40
400	220	227LMB400M2DD	2302.59	1.1	30x30
400	220	227LMB400M2EC	2302.59	1.1	35x25
400	270	277LMB400M2CG	1535.06	1.3	25x45
400	270	277LMB400M2CH	1535.06	1.29	25x50
400	270	277LMB400M2DE	1535.06	1.26	30x35
400	270	277LMB400M2ED	1535.06	1.27	35x30
400	330	337LMB400M2DF	753.57	1.5	30x40
400	330	337LMB400M2DG	1255.96	1.55	30x45
400	330	337LMB400M2ED	1255.96	1.5	35x30
400	390	397LMB400M2DG	1062.73	1.6	30x45
400	390	397LMB400M2EE	1062.73	1.7	35x35
400	470	477LMB400M2EF	881.842	2.07	35x40
400	560	567LMB400M2EG	40.118	2.36	35x45
400	680	687LMB400M2EH	609.509	2.4	35x50
450	47	476LMB450M2AC	8818.43	0.39	20x25
450	47	476LMB450M2BC	5291.06	0.39	22x25
450	56	566LMB450M2AD	7401.18	0.46	20x30
450	56	566LMB450M2BC	7401.18	0.5	22x25
450	68	686LMB450M2AE	6095.09	0.56	20x35
450	68	686LMB450M2BD	6095.09	0.54	22x30
450	68	686LMB450M2CC	6095.09	0.5	25x25
450	82	826LMB450M2AC	5054.46	0.64	20x35
450	82	826LMB450M2BD	5054.46	0.64	22x30
450	82	826LMB450M2BE	5054.46	0.61	22x35
450	82	826LMB450M2CC	5054.46	0.64	25x25
450	82	826LMB450M2CD	3032.68	0.6	25x30
450	100	107LMB450M2BC	4144.66	0.69	22x25
450	100	107LMB450M2BE	4144.66	0.69	22x35

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+105°C, Extended Life, 3000 hours

WVDC	Capacitance (µF)	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Maximum RMS Ripple Current (A) 120 Hz, +105°C	Dims DxDL (mm)
450	100	107LMB450M2CC	4144.66	0.65	25x25
450	100	107LMB450M2DC	4144.66	0.68	30x25
450	120	127LMB450M2BF	3453.88	0.8	22x40
450	120	127LMB450M2BG	3453.88	0.8	22x45
450	120	127LMB450M2CD	3453.88	0.8	25x30
450	120	127LMB450M2CE	3453.88	0.77	25x35
450	120	127LMB450M2DC	3453.88	0.8	30x25
450	120	127LMB450M2DD	3453.88	0.8	30x30
450	120	127LMB450M2EC	3453.88	0.82	35x25
450	150	157LMB450M2BG	2763.11	0.88	22x45
450	150	157LMB450M2CE	2763.11	0.88	25x35
450	150	157LMB450M2CF	2763.11	0.96	25x40
450	150	157LMB450M2DD	2763.11	0.88	30x30
450	150	157LMB450M2DE	2763.11	0.96	30x35
450	150	157LMB450M2ED	2763.11	0.99	35x30
450	180	187LMB450M2CF	2302.59	1.1	25x40
450	180	187LMB450M2DD	2302.59	1	30x30

WVDC	Capacitance (µF)	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Maximum RMS Ripple Current (A) 120 Hz, +105°C	Dims DxDL (mm)
450	180	187LMB450M2DE	2302.59	1.05	30x35
450	180	187LMB450M2ED	2302.59	1.08	35x30
450	220	227LMB450M2CG	2302.59	1.12	25x45
450	220	227LMB450M2DE	2302.59	1.12	30x35
450	220	227LMB450M2ED	2302.59	1.12	35x30
450	220	227LMB450M2EE	2302.59	1.27	35x35
450	270	277LMB450M2DF	1535.06	1.28	30x40
450	270	277LMB450M2DG	1535.06	1.48	30x45
450	270	277LMB450M2EE	1535.06	1.49	35x35
450	330	337LMB450M2DH	1255.96	1.45	30x50
450	330	337LMB450M2EF	1255.96	1.45	35x40
450	330	337LMB450M2EG	1255.96	1.72	35x45
450	390	397LMB450M2EF	1062.73	1.55	35x40
450	390	397LMB450M2EH	1062.73	1.96	35x50
450	470	477LMB450M2EH	529.11	1.85	35x50
450	560	567LMB450M2EH	740.12	2.15	35x50

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