

# V-CHIP ALUMINUM ELECTROLYTIC CAPACITOR



## KH Parts List (1-3)

Size D × L	Part No.	R.V. (V.DC)	Cap. (μ F)	Tangent of Loss Angle (tan δ)	Leakage Current (μ A)	ESR (Ω) (20°C, 100kHz)	ESR (Ω) (-40°C, 100kHz)	Ripple Current (mA rms.) (100kHz, 125°C)
				max.	max.	max.	max.	max.
6.3 × 7.7	10KH101MLC6.3×7.7EC	10	100	0.24	30.0	2.3	46.0	72
8 × 6.2	10KH101MLC8×6.2EC	10	100	0.24	30.0	2.3	46.0	72
8 × 10.5	10KH221MLC8×10.5EC	10	220	0.24	66.0	1.0	20.0	136
10 × 10.5	10KH331MLC10×10.5EC	10	330	0.24	99.0	0.7	13.4	188
10 × 13.5	10KH471MLC10×13.5EC	10	470	0.24	141.0	0.5	9.5	300
12.5 × 13.5	10KH102MLC12.5×13.5EC	10	1000	0.22	300.0	0.14	2.1	750
12.5 × 16	10KH102MLC12.5×16EC	10	1000	0.22	300.0	0.11	1.5	900
16 × 16.5	10KH222MLC16×16.5EC	10	2200	0.22	660.0	0.10	1.5	1000
6.3 × 5.8	16KH470MLC6.3×5.8EC	16	47	0.20	22.6	3.3	66.0	43
8 × 10.5	16KH101MLC8×10.5EC	16	100	0.20	48.0	1.0	20.0	115
10 × 10.5	16KH221MLC10×10.5EC	16	220	0.20	105.6	0.7	13.4	175
10 × 13.5	16KH331MLC10×13.5EC	16	330	0.20	158.4	0.5	9.5	280
12.5 × 13.5	16KH471MLC12.5×13.5EC	16	470	0.18	225.6	0.14	2.1	750
12.5 × 13.5	16KH681MLC12.5×13.5EC	16	680	0.18	326.4	0.14	2.1	750
16 × 16.5	16KH681MLC16×16.5EC	16	680	0.18	326.4	0.10	1.5	1000
6.3 × 5.8	25KH330MLC6.3×5.8EC	25	33	0.16	24.8	3.3	66.0	45
6.3 × 7.7	25KH470MLC6.3×7.7EC	25	47	0.16	35.3	2.3	46.0	68
8 × 6.2	25KH470MLC8×6.2EC	25	47	0.16	35.3	2.3	46.0	68
8 × 10.5	25KH101MLC8×10.5EC	25	100	0.16	75.0	1.0	20.0	126
10 × 10.5	25KH221MLC10×10.5EC	25	220	0.16	165.0	0.7	13.4	211
10 × 13.5	25KH331MLC10×13.5EC	25	330	0.16	247.5	0.5	9.5	270
12.5 × 13.5	25KH331MLC12.5×13.5EC	25	330	0.16	247.5	0.14	2.1	750
12.5 × 13.5	25KH471MLC12.5×13.5EC	25	470	0.16	352.5	0.14	2.1	750
16 × 16.5	25KH681MLC16×16.5EC	25	680	0.16	510.0	0.10	1.5	1000
6.3 × 5.8	35KH100MLC6.3×5.8EC	35	10	0.14	10.5	3.3	66.0	38
6.3 × 5.8	35KH220MLC6.3×5.8EC	35	22	0.14	23.1	3.3	66.0	39
6.3 × 7.7	35KH330MLC6.3×7.7EC	35	33	0.14	34.7	2.3	46.0	62
8 × 6.2	35KH330MLC8×6.2EC	35	33	0.14	34.7	2.3	46.0	62
8 × 10.5	35KH470MLC8×10.5EC	35	47	0.14	49.4	1.0	20.0	92
10 × 10.5	35KH101MLC10×10.5EC	35	100	0.14	105.0	0.7	13.4	151
10 × 13.5	35KH221MLC10×13.5EC	35	220	0.14	231.0	0.50	9.5	260
12.5 × 13.5	35KH221MLC12.5×13.5EC	35	220	0.14	231.0	0.14	2.1	750

# V-CHIP ALUMINUM ELECTROLYTIC CAPACITOR



## KH Parts List (2-3)

Size	Part No.	R.V. (V.DC)	Cap. ( $\mu$ F)	Tangent of Loss Angle ( $\tan \delta$ )	Leakage Current ( $\mu$ A)	ESR ( $\Omega$ ) (20°C, 100kHz)	ESR ( $\Omega$ ) (-40°C, 100kHz)	Ripple Current (mA rms.) (100kHz, 125°C)
D × L				max.	max.	max.	max.	max.
12.5 × 13.5	35KH331MLC12.5×13.5EC	35	330	0.14	346.5	0.14	2.1	750
12.5 × 16	35KH471MLC12.5×16EC	35	470	0.14	493.5	0.11	1.5	900
16 × 16.5	35KH471MLC16×16.5EC	35	470	0.14	493.5	0.10	1.5	1000
6.3 × 5.8	50KH100MLC6.3×5.8EC	50	10	0.14	15.0	3.3	66.0	38
6.3 × 7.7	50KH100MLC6.3×7.7EC	50	10	0.14	15.0	2.3	46.0	50
6.3 × 7.7	50KH220MLC6.3×7.7EC	50	22	0.14	33.0	2.3	46.0	50
8 × 6.2	50KH220MLC8×6.2EC	50	22	0.14	33.0	2.3	46.0	50
8 × 10.5	50KH330MLC8×10.5EC	50	33	0.14	49.5	1.0	20.0	83
10 × 10.5	50KH470MLC10×10.5EC	50	47	0.14	70.5	0.7	13.4	111
12.5 × 13.5	50KH101MLC12.5×13.5EC	50	100	0.12	150.0	0.23	3.5	550
12.5 × 13.5	50KH221MLC12.5×13.5EC	50	220	0.12	330.0	0.23	3.5	550
16 × 16.5	50KH221MLC16×16.5EC	50	220	0.12	330.0	0.15	2.3	850
12.5 × 16	50KH331MLC12.5×16EC	50	330	0.12	495.0	0.18	2.7	700
16 × 16.5	50KH331MLC16×16.5EC	50	330	0.12	495.0	0.15	2.3	850
6.3 × 7.7	63KH100MLC6.3×7.7EC	63	10	0.18	18.9	2.3	115.0	42
8 × 6.2	63KH100MLC8×6.2EC	63	10	0.18	18.9	2.3	115.0	42
8 × 10.5	63KH220MLC8×10.5EC	63	22	0.18	41.6	1.0	50.0	56
10 × 10.5	63KH330MLC10×10.5EC	63	33	0.18	62.4	0.7	35.0	77
10 × 13.5	63KH470MLC10×13.5EC	63	47	0.18	88.8	0.45	22.5	150
12.5 × 13.5	63KH101MLC12.5×13.5EC	63	100	0.14	189.0	0.25	12.5	500
12.5 × 16	63KH221MLC12.5×16EC	63	220	0.14	415.8	0.20	10.0	600
16 × 16.5	63KH331MLC16×16.5EC	63	330	0.14	623.7	0.18	9.0	820
8 × 10.5	100KH100MLC8×10.5EC	100	10	0.18	30.0	1.00	50.0	53
10 × 10.5	100KH220MLC10×10.5EC	100	22	0.18	66.0	0.70	35.0	63
10 × 13.5	100KH330MLC10×13.5EC	100	33	0.18	99.0	0.45	22.5	130
12.5 × 13.5	100KH470MLC12.5×13.5EC	100	47	0.10	141.0	0.33	16.5	450
12.5 × 16	100KH680MLC12.5×16EC	100	68	0.10	204.0	0.26	13.0	550
16 × 16.5	100KH101MLC16×16.5EC	100	100	0.10	300.0	0.24	12.0	650

# V-CHIP ALUMINUM ELECTROLYTIC CAPACITOR



## KH Parts List (3-3)

Size	Part No.	R.V. (V.DC)	Cap. ( $\mu$ F)	Tangent of Loss Angle ( $\tan \delta$ )	Leakage Current ( $\mu$ A)	Ripple Current (mA rms.) (120Hz, 125°C)
D × L				max.	max.	max.
12.5 × 13.5	160KH100MLC12.5×13.5EC	160	10	0.20	164	100
16 × 16.5	160KH220MLC16×16.5EC	160	22	0.20	241	180
12.5 × 13.5	200KH100MLC12.5×13.5EC	200	10	0.20	180	100
16 × 16.5	200KH220MLC16×16.5EC	200	22	0.20	276	180
12.5 × 16	250KH100MLC12.5×16EC	250	10	0.20	200	110
12.5 × 13.5	400KH4R7MLC12.5×13.5EC	400	4.7	0.24	175	70
16 × 16.5	400KH6R8MLC16×16.5EC	400	6.8	0.24	209	100
12.5 × 16	450KH3R3MLC12.5×16EC	450	3.3	0.24	159	65
16 × 16.5	450KH4R7MLC16×16.5EC	450	4.7	0.24	185	85