

MKCHA · PCB mount · 105 °C

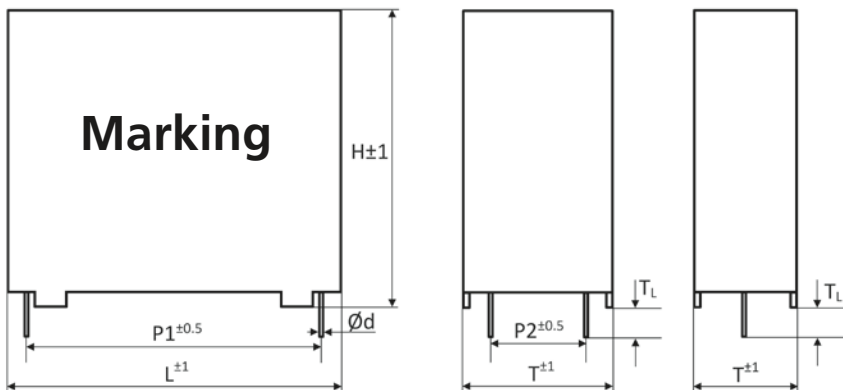
Resin-encased box type · Standard Performances

> Specifications · Spezifikationen

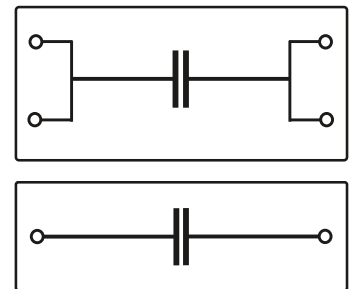
Items	Characteristics
Temperature range	-40 °C ~ +105 °C
	40/105/56 (IEC 61071)
Rated Voltage U_N	450 to 1.500 Vdc at 85 °C
	voltage derating when hotspot temp ≥ 85 °C
Voltage test between terminals U_{TT}	1.5 X U_N / 10s
Maximum ripple Voltage U_{AC} peak to peak	0.2 X U_N 85 °C
Terminals	tinned wired leads
Life Time Test / Standard	IEC 61071:2007
Life Time Expectancy	117 000 hrs ($T_{HOTSPOT}$ 70 °C, 1.0 x U_N)
Failure Rate	≤ 50 FIT = 50×10^{-9} Failures / hour
Dielectric	Polypropylene
Safety function	Self healing film
Case material	PBT conform to UL94V-0
Filling material	resin conform to UL94V-0
Product Compliance	RoHS, REACH, Conflict Minerals a.o. - refer to p.12-13



> Dimensions · Abmessungen

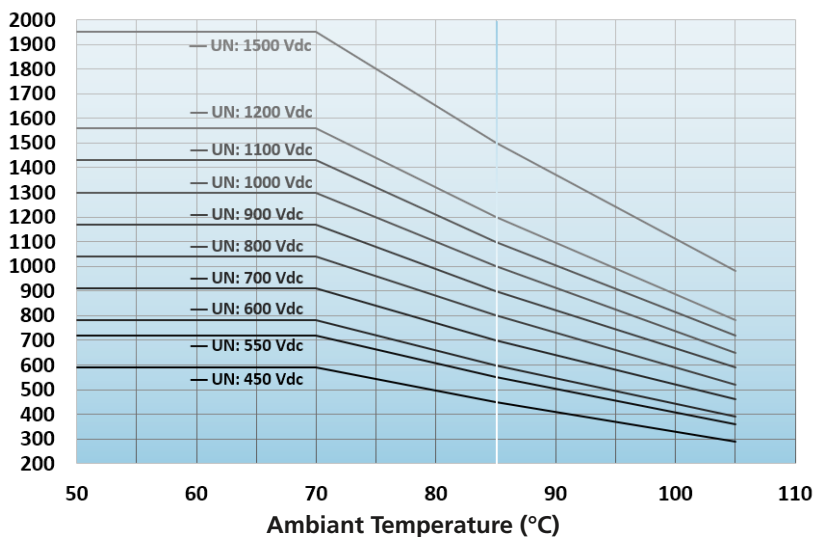


internal circuit



For details refer to p. 9
Technische Details siehe S. 9

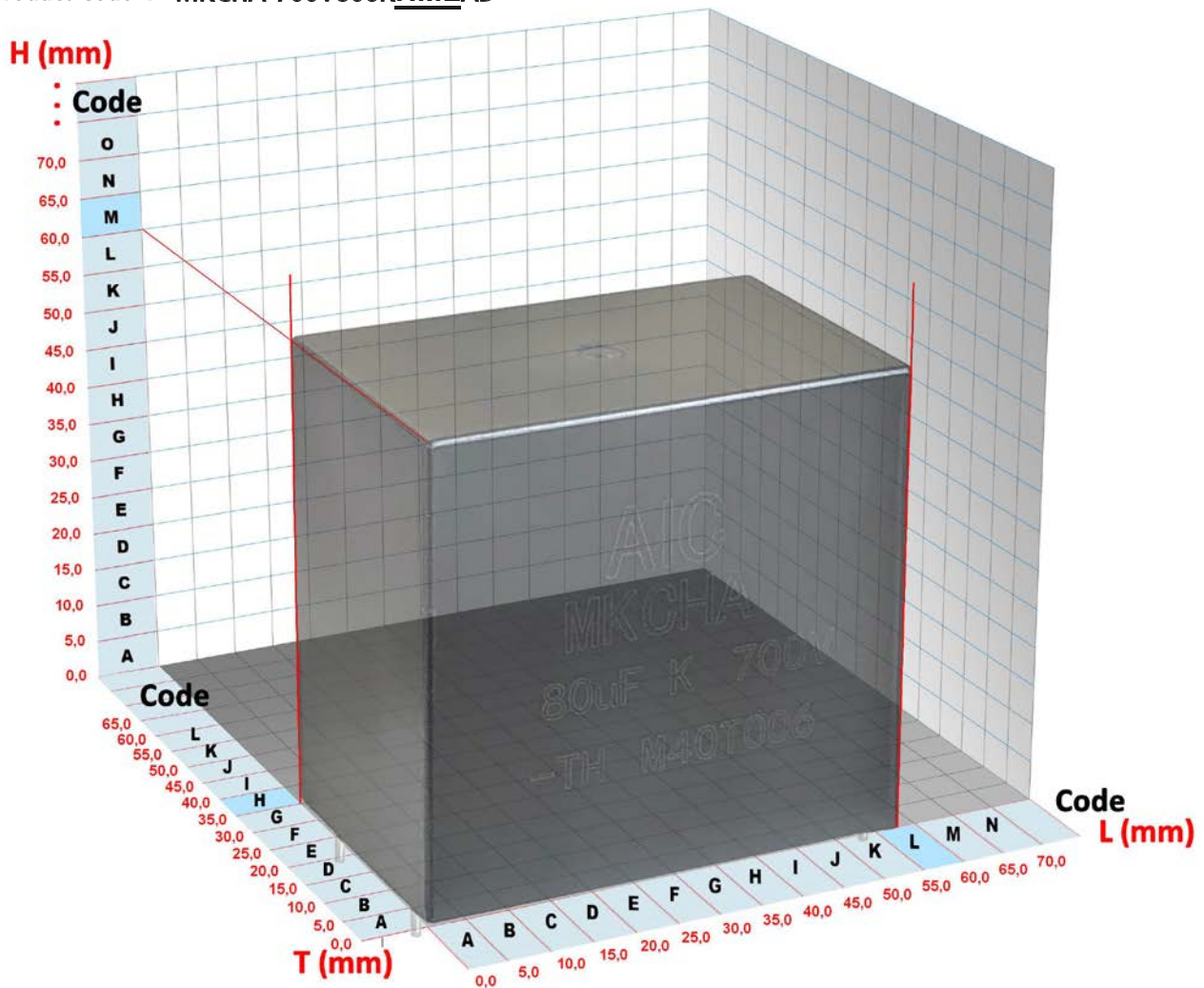
> Voltage derating · Spannung Abstufung



> Case Code · Gehäuse Codierung

Capacitor : MKCHA, 700V, 80µF±10%, T = 35.0 mm, H = 60.0 mm, L = 57.5 mm

Product Code : MKCHA-700V806KHMLAD



Case dimension code	Case (mm)			Terminals (mm)	
	T	H	L	P1	P2
DGI	16.0	31.0	41.0	37.5	5.0
	18.0	32.0	42.0	37.5	10.2
ECG	20.0	14.0	31.5	27.5	5.0
EHI	21.5	38.5	43.0	37.5	10.2
EGI	23.0	34.0	43.0	37.5	10.2
EII	24.0	44.0	42.0	37.5	10.2
FJL	25.0	45.0	57.5	52.5	10.2
FEI	27.0	21.0	42.0	37.5	10.2
FHI	27.0	36.0	41.0	37.5	10.2
FII	28.0	42.5	42.0	37.5	10.2
	29.0	44.0	41.0	37.5	15.0
GJI	30.0	45.0	42.0	37.5	20.3
GJL	30.0	45.0	57.5	52.5	20.3
GLI	30.0	55.0	42.0	37.5	20.3

Case dimension code	Case (mm)			Terminals (mm)	
	T	H	L	P1	P2
HEL	35.0	24.0	57.5	52.5	20.3
HKL	35.0	50.0	57.5	52.5	20.3
HML	35.0	60.0	57.5	52.5	20.3
HNL	35.0	65.0	57.5	52.5	20.3
HQL	35.0	80.0	57.5	52.5	20.3
HEL	39.0	24.0	57.5	52.5	20.3
IEL	43.0	22.0	57.5	52.5	20.3
JEI	45.0	21.0	42.0	37.5	20.3
JLL	45.0	57.0	57.5	52.5	20.3
JNL	45.0	65.0	57.5	52.5	20.3
MJL	60.0	45.0	57.5	52.5	20.3

Additional designs on request · Weitere Designs auf Anfrage

> Product Code · Bestellbezeichnung

Example: Series MKCHA · 900V · 506 · K · T=35mm · H=50mm · L=57.5mm · 4pins Ø1.2x5.0mm

MKCHA-	900V	506	K	HKL	A	D
Type of series	Rated voltage xxxV	Capacitance code	Capacitance tolerance	Case Code	Pin style	Wire diam. (mm)
			K : ± 10 % J : ± 5 %		Type Code	Ød Code
		The first two digits are significant. The last digit indicates the number of following zeros in pF.			4 x 8mm K	0.6 A
					4 x 5mm A	0.8 B
					4 x 4.5mm L	1.0 C
					4 x 4mm S	1.2 D
					4 x 3.5mm J	
					2 x 20mm C	
					2 x 5mm B	
					2 x 4.5mm T	
					2 x 4mm M	
					2 x 3.5mm U	
					2 x 3.2mm V	

Rated DC Voltage U_N derating Voltage test between terminals U_{TT}	Nominal Capacitance C_N [µF]	Ripple Current at 70°C 1k–10kHz I_r [A RMS]	Peak Current Maximum value \hat{I} [A]	ESR ESR [mΩ]	Thermal Resist. R_{th} [K/W]	dv/dt [V/µs]	Dimensions			Product Code	
							Case Size L x H x T [mm]	Terminals P1 [mm] P2 [mm] Ød [mm]			
450 Vdc at 85°C 500Vdc at 70°C 300Vdc at 105°C U_{TT} 675Vdc/10s	1	2.5	50	55.0	29.0	50	32 x 18 x 9	27.5	\	0.8	MKCHA-450V105KBDGGB
	2	2.9	100	34.5	32.1	50	32 x 18 x 9	27.5	\	0.8	MKCHA-450V205KBDGGB
	3	3.9	150	23.5	26.7	50	32 x 20 x 11	27.5	\	0.8	MKCHA-450V305KCEGGB
	4	3.9	200	21.0	29.9	50	32 x 20 x 11	27.5	\	0.8	MKCHA-450V405KCEGGB
	5	4.9	250	15.5	26.2	50	32 x 20 x 11	27.5	\	0.8	MKCHA-450V505KCEGGB
		5.4	250	14.5	23.2	50	32 x 22 x 13	27.5	\	0.8	MKCHA-450V505KCEGGB
	10	7.4	500	8.5	20.5	50	32 x 28 x 14	27.5	\	0.8	MKCHA-450V106KCFGGB
		8.8	500	8.0	15.1	50	32 x 28 x 18	27.5	\	0.8	MKCHA-450V106KDFGGB
	12	9.8	600	7.0	14.0	50	32 x 33 x 18	27.5	\	0.8	MKCHA-450V126KDGGGB
	15	11.3	750	6.0	12.4	50	32 x 37 x 22	27.5	\	0.8	MKCHA-450V156KEHGGB
		9.3	450	8.5	12.8	30	42.5 x 18 x 24	37.5	\	1	MKCHA-450V156KEDIBC
	18	10.8	900	6.0	13.6	50	32 x 37 x 22	27.5	\	0.8	MKCHA-450V186KEHGGB
	20	11.8	1000	5.0	12.6	50	32 x 37 x 22	27.5	\	0.8	MKCHA-450V206KEHGGB
	22	11.8	1100	5.0	12.6	50	32 x 37 x 22	27.5	\	0.8	MKCHA-450V226KEHGGB
	25	12.3	750	5.5	11.4	30	42.5 x 37 x 22	37.5	10.2	1	MKCHA-450V256KEHIAC
	30	11.8	900	6.0	11.4	30	42.5 x 40 x 20	37.5	10.2	1	MKCHA-450V306KEIAC
		13.8	1200	5.5	9.2	30	42.5 x 37 x 28	37.5	10.2	1	MKCHA-450V406KFHIAC
	40	14.8	1200	5.0	8.4	30	42.5 x 44 x 24	37.5	10.2	1	MKCHA-450V406KEIAC
		14.9	1500	4.0	11.0	30	42.5 x 45 x 30	37.5	20.3	1.2	MKCHA-450V506KGJIAD
	55	15.4	1650	5.0	8.2	30	57.5 x 45 x 30	37.5	20.3	1.2	MKCHA-450V556KGJLAD
60	16.4	1800	4.5	8.1	30	57.5 x 45 x 30	37.5	20.3	1.2	MKCHA-450V606KGJLAD	
	16.4	1800	4.0	9.1	30	57.5 x 45 x 30	37.5	20.3	1.2	MKCHA-450V606KGJLAD	
80	15.9	1200	4.0	9.8	15	57.5 x 45 x 30	52.5	20.3	1.2	MKCHA-450V806KGJLAD	
100	18.0	1500	4.0	8.1	15	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-450V107KHKLAD	
130	22.1	1950	3.5	5.9	15	57.5 x 60 x 35	52.5	20.3	1.2	MKCHA-450V137KHMLAD	
140	24.2	2100	3.5	5.1	15	57.5 x 65 x 35	52.5	20.3	1.2	MKCHA-450V147KHNLAD	
150	26.3	2250	3.0	4.6	15	57.5 x 70 x 35	52.5	20.3	1.2	MKCHA-450V157KHOLAD	
160	28.3	2400	3.0	4.1	15	57.5 x 80 x 35	52.5	20.3	1.2	MKCHA-450V167KHQLAD	
170	30.4	2550	3.0	3.8	15	57.5 x 80 x 35	52.5	20.3	1.2	MKCHA-450V177KHQLAD	

Rated DC Voltage U_N derating Voltage test between terminals U_{TT}	Nominal Capacitance C_N [μF]	Ripple Current at 70 °C 1k–10kHz I_r [A RMS]	Peak Current Maximum value \hat{I} [A]	ESR ESR [mΩ]	Thermal Resist. R_{th} [K/W]	dv/dt [V/μs]	Dimensions				Product Code
							Case Size		Terminals		
							L x H x T [mm]	P1 [mm]	P2 [mm]	Ød [mm]	
550 Vdc at 85 °C 720 Vdc at 70 °C 360 Vdc at 105 °C U_{TT} 825 Vdc/10s	3	3.9	150	28.5	21.9	50	32 x 20 x 11	27.5	\	0.8	MKCHA-550V305KCEGGB
	5	5.9	250	14.5	19.4	50	32 x 22 x 13	27.5	\	0.8	MKCHA-550V505KCEGGB
	8	8.3	400	12.5	10.9	50	32 x 28 x 14	27.5	\	0.8	MKCHA-550V805KCFGBB
	10	9.8	500	8.0	12.3	50	32 x 33 x 18	27.5	\	0.8	MKCHA-550V106KDGGBB
	15	11.8	750	6.5	10.5	50	32 x 37 x 22	27.5	\	0.8	MKCHA-550V156KEHGGB
		12.8	750	5.5	10.6	50	32 x 37 x 22	27.5	10.2	0.8	MKCHA-550V156KEHGAB
	20	12.3	600	6.5	9.6	30	42.5 x 40 x 20	37.5	10.2	1	MKCHA-550V206KEIIAC
	22	13.3	660	6.5	8.3	30	42.5 x 40 x 20	37.5	10.2	1	MKCHA-550V226KEIIAC
	25	14.3	750	6.5	7.2	30	42.5 x 40 x 20	37.5	10.2	1	MKCHA-550V256KEIIAC
	30	15.8	900	6.0	6.4	30	42.5 x 44 x 24	37.5	10.2	1	MKCHA-550V306KEIIAC
	35	17.8	1050	6.0	5.0	30	42.5 x 45 x 30	37.5	20.3	1.2	MKCHA-550V356KGJIAD
	40	17.8	1200	5.5	5.5	30	42.5 x 45 x 30	37.5	20.3	1.2	MKCHA-550V406KGJIAD
	50	19.8	1500	5.0	5.0	30	42.5 x 50 x 35	37.5	20.3	1.2	MKCHA-550V506KHKIAD
	60	17.9	900	5.0	6.3	15	57.5 x 45 x 30	37.5	20.3	1.2	MKCHA-550V606KGJLAD
	75	19.9	1125	5.0	5.0	15	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-550V756KHKLAD
	100	24.0	1500	4.5	3.9	15	57.5 x 55 x 45	52.5	20.3	1.2	MKCHA-550V107KJLLAD
	110	26.1	1650	4.0	3.7	15	57.5 x 53 x 50	52.5	20.3	1.2	MKCHA-550V117KKKLAB
130	23.1	1950	3.5	5.6	15	57.5 x 60 x 35	52.5	20.3	1.2	MKCHA-550V137KHMLAD	
140	25.2	2100	3.0	4.8	15	57.5 x 65 x 35	52.5	20.3	1.2	MKCHA-550V147KHNLAD	
150	27.3	2250	3.0	4.4	15	57.5 x 70 x 35	52.5	20.3	1.2	MKCHA-550V157KHOLAD	
160	29.3	2400	3.0	4.0	15	57.5 x 80 x 35	52.5	20.3	1.2	MKCHA-550V167KHQLAD	
170	32.4	2550	2.5	3.5	15	57.5 x 80 x 35	52.5	20.3	1.2	MKCHA-550V177KHQLAD	
600 Vdc at 85 °C 780 Vdc at 70 °C 390 Vdc at 105 °C U_{TT} 900 Vdc/10s	3	3.9	150	28.5	21.9	50	32 x 20 x 11	27.5	\	0.8	MKCHA-600V305KCEGGB
	4	4.9	200	26.5	15.1	50	32 x 20 x 11	27.5	\	0.8	MKCHA-600V405KCEGGB
	5	5.9	250	14.5	18.9	50	32 x 28 x 14	27.5	\	0.8	MKCHA-600V505KCFGBB
	8	7.4	400	12.0	14.6	50	32 x 28 x 14	27.5	\	0.8	MKCHA-600V805KCFGBB
	10	8.4	500	7.5	18.2	50	32 x 33 x 18	27.5	\	0.8	MKCHA-600V106KDGGBB
	12	9.4	600	7.5	14.6	50	32 x 33 x 18	27.5	\	0.8	MKCHA-600V126KDGGBB
		7.9	360	9.5	16.2	30	42.5 x 18 x 24	37.5	\	1	MKCHA-600V126KEDIBC
	15	10.4	750	7.5	11.9	50	32 x 37 x 22	27.5	\	0.8	MKCHA-600V156KEHGGB
		11.9	750	6.0	11.5	50	42.5 x 18 x 24	37.5	\	1	MKCHA-600V156KEDIBC
	20	10.9	600	6.0	13.7	30	42.5 x 40 x 20	37.5	10.2	1	MKCHA-600V206KEIIAC
	30	13.0	900	5.5	10.7	30	42.5 x 37 x 28	37.5	10.2	1	MKCHA-600V306KFHAC
	35	16.6	1050	5.0	7.3	30	42.5 x 44 x 24	37.5	10.2	1	MKCHA-600V356KEIIAC
	40	17.8	1200	4.0	7.7	30	42.5 x 45 x 30	37.5	20.3	1.2	MKCHA-600V406KGJIAD
	50	13.9	750	6.5	7.8	15	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-600V506KHKLAB
	60	15.9	900	5.0	7.9	15	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-600V606KHKLAB
	70	17.9	1050	5.0	6.3	15	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-600V706KHKLAB
	80	19.9	1200	4.0	6.4	15	57.5 x 55 x 45	52.5	20.3	1.2	MKCHA-600V806KJLLAD
	90	24.0	1350	4.0	4.4	15	57.5 x 55 x 45	52.5	20.3	1.2	MKCHA-600V906KJLLAD
	100	26.0	1500	4.0	3.8	15	57.5 x 53 x 50	52.5	20.3	1.2	MKCHA-600V107KKKLAB
	110	28.1	1650	3.5	3.7	15	57.5 x 53 x 50	52.5	20.3	1.2	MKCHA-600V117KKKLAB
120	30.1	1800	3.5	3.4	15	57.5 x 60 x 35	52.5	20.3	1.2	MKCHA-600V127KHMLAD	
130	32.2	1950	3.0	3.1	15	57.5 x 65 x 35	52.5	20.3	1.2	MKCHA-600V137KHNLAD	
140	34.3	2100	3.0	2.8	15	57.5 x 70 x 35	52.5	20.3	1.2	MKCHA-600V147KHOLAD	
	34.3	2100	3.0	2.8	15	57.5 x 65 x 45	52.5	20.3	1.2	MKCHA-600V147KJNLAD	
150	36.4	2250	3.0	2.7	15	57.5 x 80 x 35	52.5	20.3	1.2	MKCHA-600V157KHQLAD	

MKCHA · PCB mount · 105 °C

Rated DC Voltage U_N derating Voltage test between terminals U_{TT}	Nominal Capacitance C_N [μ F]	Ripple Current at 70°C 1k–10kHz I_r [A RMS]	Peak Current Maximum value \uparrow [A]	ESR ESR [m Ω]	Thermal Resist. R_{th} [K/W]	dv/dt [V/ μ s]	Dimensions				Product Code
							Case Size		Terminals		
							L x H x T [mm]	P1 [mm]	P2 [mm]	\varnothing d [mm]	
700 Vdc at 85°C 910 Vdc at 70 °C 460 Vdc at 105 °C U_{TT} 1050 Vdc/10s	1	2.5	75	55.0	29.0	75	32 x 18 x 9	27.5	\	0.8	MKCHA-700V105KBDGGB
	2	2.9	150	35.5	31.1	75	32 x 18 x 9	27.5	\	0.8	MKCHA-700V205KBDGGB
	3	4.4	150	28.5	17.3	50	32 x 20 x 11	27.5	\	0.8	MKCHA-700V305KCEGGB
	3,3	5.4	165	26.5	12.5	50	32 x 28 x 14	27.5	\	0.8	MKCHA-700V335KCFGGB
	5	5.9	250	14.5	19.4	50	32 x 28 x 14	27.5	\	0.8	MKCHA-700V505KCFGGB
	6	5.9	450	14.5	19.4	75	32 x 28 x 18	27.5	\	0.8	MKCHA-700V605KDFGGB
	8	8.8	400	10.0	12.1	50	32 x 33 x 18	27.5	\	0.8	MKCHA-700V805KDGGGB
	10	9.8	500	7.0	14.0	50	32 x 33 x 18	27.5	\	0.8	MKCHA-700V106KDGGGB
		11.8	500	6.5	10.5	50	32 x 37 x 22	27.5	\	0.8	MKCHA-700V106KEHGGB
	12	11.3	300	7.5	9.9	30	42.5 x 18 x 24	37.5	\	1	MKCHA-700V106KEDIBC
		11.8	600	6.0	10.5	50	32 x 37 x 22	27.5	\	0.8	MKCHA-700V126KEHGGB
	15	11.8	360	7.0	9.7	30	42.5 x 18 x 24	37.5	\	1	MKCHA-700V126KEDIBC
		8.8	450	9.0	13.5	30	42.5 x 33.5 x 22	37.5	\	1	MKCHA-700V156KEGIBC
	20	9.8	450	8.0	12.3	30	42.5 x 33.5 x 22	37.5	10.2	1	MKCHA-700V156KEGIAC
		9.8	450	8.0	12.3	30	42.5 x 40 x 20	37.5	10.2	1	MKCHA-700V156KEIAC
	22	11.8	600	7.5	9.2	30	42.5 x 37 x 28	37.5	10.2	1	MKCHA-700V206KFHIAC
	25	13.8	660	6.5	7.7	30	42.5 x 44 x 24	37.5	10.2	1	MKCHA-700V226KEIAC
	30	15.8	750	6.0	6.4	30	42.5 x 44 x 24	37.5	10.2	1	MKCHA-700V256KEIAC
	35	15.8	900	6.0	6.6	30	42.5 x 45 x 30	37.5	20.3	1.2	MKCHA-700V306KGIAD
	40	19.7	1050	5.5	4.4	30	42.5 x 50 x 35	37.5	20.3	1.2	MKCHA-700V356KHKIAD
	45	13.8	600	5.0	10.1	15	57.5 x 45 x 30	52.5	20.3	1.2	MKCHA-700V406KJLAD
	50	15.3	675	5.0	8.2	15	57.5 x 45 x 30	52.5	20.3	1.2	MKCHA-700V456KJLAD
	55	14.9	750	5.0	9.2	15	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-700V506KHKLAD
	60	15.9	825	4.5	8.6	15	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-700V556KHKLAD
	65	17.9	900	4.0	7.6	15	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-700V606KHKLAD
	70	19.9	975	4.0	6.3	15	57.5 x 55 x 45	52.5	20.3	1.2	MKCHA-700V656KJLLAD
	75	19.9	1050	4.0	6.6	15	57.5 x 55 x 45	52.5	20.3	1.2	MKCHA-700V706KJLLAD
	80	19.9	1125	4.0	6.6	15	57.5 x 55 x 45	52.5	20.3	1.2	MKCHA-700V756KJLLAD
	90	21.9	1200	3.5	5.9	15	57.5 x 53 x 50	52.5	20.3	1.2	MKCHA-700V806KKKLAD
		22.9	1200	3.5	5.6	15	57.5 x 60 x 35	52.5	20.3	1.2	MKCHA-700V806KHMLAD
100	24.0	1350	3.5	5.0	15	57.5 x 53 x 50	52.5	20.3	1.2	MKCHA-700V906KKKLAD	
	24.0	1350	3.5	5.0	15	57.5 x 60 x 35	52.5	20.3	1.2	MKCHA-700V906KHMLAD	
110	26.0	1500	3.5	4.2	15	57.5 x 53 x 50	52.5	20.3	1.2	MKCHA-700V107KKKLAD	
	26.0	1500	3.5	4.2	15	57.5 x 65 x 35	52.5	20.3	1.2	MKCHA-700V107KHNLAD	
120	28.1	1650	3.5	3.8	15	57.5 x 70 x 35	52.5	20.3	1.2	MKCHA-700V117KHOLAD	
130	30.1	1800	3.0	3.7	15	57.5 x 80 x 35	52.5	20.3	1.2	MKCHA-700V127KHQLAD	
140	32.2	1950	3.0	3.5	15	57.5 x 65 x 45	52.5	20.3	1.2	MKCHA-700V137KJNLAD	
800 Vdc at 85°C 1040 Vdc at 70 °C 520 Vdc at 105 °C U_{TT} 1200 Vdc/10s	1	2.0	75	63.0	39.5	75	32 x 18 x 9	27.5	\	0.8	MKCHA-800V105KBDGGB
	2	3.4	150	31.5	25.8	75	32 x 20 x 11	27.5	\	0.8	MKCHA-800V205KCEGGB
	3	4.4	225	21.5	23.1	75	32 x 22 x 13	27.5	\	0.8	MKCHA-800V305KCEGGB
	3,3	3.9	165	25.5	24.5	50	32 x 28 x 14	27.5	\	0.8	MKCHA-800V335KCFGGB
	5	5.9	250	12.0	22.7	50	32 x 28 x 14	27.5	\	0.8	MKCHA-800V505KCFGGB
	6	7.4	450	10.5	16.6	75	32 x 28 x 18	27.5	\	0.8	MKCHA-800V605KDFGGB
	8	9.3	176	9.5	11.5	22	32 x 33 x 18	27.5	\	0.8	MKCHA-800V805KDGGGB
	9	9.8	198	8.5	11.6	22	32 x 33 x 18	27.5	\	0.8	MKCHA-800V905KDGGGB
	10	11.3	220	9.5	7.9	22	32 x 37 x 22	27.5	\	0.8	MKCHA-800V106KEHGGB
		7.9	300	12.5	12.3	30	42.5 x 32 x 19	37.5	\	1	MKCHA-800V106KDGIBC
	15	9.9	450	8.0	12.3	30	42.5 x 40 x 20	37.5	10.2	1	MKCHA-800V156KEIAC
	20	11.8	600	7.0	9.8	30	42.5 x 37 x 28	37.5	10.2	1	MKCHA-800V206KFHIAC

Rated DC Voltage U_N derating	Nominal Capacitance	Ripple Current at 70 °C 1k–10kHz	Peak Current Maximum value \uparrow	ESR	Thermal Resist.	dv/dt	Dimensions				Product Code
							Case Size		Terminals		
							$L \times H \times T$ [mm]	P1 [mm]	P2 [mm]	$\varnothing d$ [mm]	
800 Vdc at 85 °C 1040 Vdc at 70 °C 520 Vdc at 105 °C U_T 1200 Vdc/10s	20	13.3	600	6.5	8.3	30	42.5 x 44 x 24	37.5	10.2	1	MKCHA-800V206KEIAC
	22	13.8	660	6.0	8.4	30	42.5 x 44 x 24	37.5	10.2	1	MKCHA-800V226KEIAC
	25	13.8	425	5.5	9.2	17	42.5 x 45 x 30	37.5	20.3	1.2	MKCHA-800V256KGJIAD
	30	15.8	900	4.5	8.6	30	42.5 x 45 x 30	37.5	20.3	1.2	MKCHA-800V306KGJIAD
	35	14.1	420	6.5	7.5	12	57.5 x 45 x 30	52.5	20.3	1.2	MKCHA-800V356KGJLAD
	40	13.9	600	6.0	8.4	15	57.5 x 45 x 30	52.5	20.3	1.2	MKCHA-800V406KGJLAD
	45	15.4	675	5.5	7.6	15	57.5 x 45 x 30	52.5	20.3	1.2	MKCHA-800V456KGJLAD
	47	17.4	564	5.0	6.5	12	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-800V476KHKLAD
	50	15.9	600	5.0	7.8	12	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-800V506KHKLAD
	55	17.0	660	4.5	7.5	12	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-800V556KHKLAD
	65	19.0	780	4.0	6.9	12	57.5 x 60 x 35	52.5	20.3	1.2	MKCHA-800V656KHMLAD
		20.0	975	4.0	6.3	15	57.5 x 55 x 45	52.5	20.3	1.2	MKCHA-800V656KJLLAD
	70	20.1	1050	3.5	6.6	15	57.5 x 55 x 45	52.5	20.3	1.2	MKCHA-800V706KJLLAD
		20.1	1050	3.5	6.6	15	57.5 x 60 x 35	52.5	20.3	1.2	MKCHA-800V706KHMLAD
	75	22.1	1125	3.5	5.4	15	57.5 x 55 x 45	52.5	20.3	1.2	MKCHA-800V756KJLLAD
		22.1	1125	3.5	5.4	15	57.5 x 65 x 35	52.5	20.3	1.2	MKCHA-800V756KHNLAD
	80	23.2	1200	3.5	5.4	15	57.5 x 53 x 50	52.5	20.3	1.2	MKCHA-800V806KKKLAB
		23.2	1200	3.5	5.4	15	57.5 x 70 x 35	52.5	20.3	1.2	MKCHA-800V806KHOLAD
	90	25.3	1350	3.0	4.8	15	57.5 x 53 x 50	52.5	20.3	1.2	MKCHA-800V906KKKLAB
		25.3	1350	3.0	4.8	15	57.5 x 80 x 35	52.5	20.3	1.2	MKCHA-800V906KHQLAD
100	28.4	1500	3.0	4.1	15	57.5 x 65 x 45	52.5	20.3	1.2	MKCHA-800V107KJNLAD	
900 Vdc at 85 °C 1170 Vdc at 70 °C 590 Vdc at 105 °C U_T 1350 Vdc/10s	1	2.0	60	64.0	38.9	60	32 x 18 x 9	27.5	\	0.8	MKCHA-900V105KBDGGB
	2	2.9	120	25.5	43.5	60	32 x 20 x 11	27.5	\	0.8	MKCHA-900V205KCEGGB
	3	4.9	180	19.0	21.2	60	32 x 22 x 13	27.5	\	0.8	MKCHA-900V305KCEGGB
	3,3	4.9	198	19.0	21.2	60	32 x 24.5 x 15	27.5	\	0.8	MKCHA-900V335KDEGGB
	5	6.9	300	12.5	16.0	60	32 x 28 x 18	27.5	\	0.8	MKCHA-900V505KDFGGB
	6	7.9	360	11.0	13.9	60	32 x 33 x 18	27.5	\	0.8	MKCHA-900V605KDGGB
	8	10.3	480	10.0	8.9	60	32 x 37 x 22	27.5	\	0.8	MKCHA-900V805KEHGGB
	10	11.8	600	10.0	6.8	60	32 x 37 x 22	27.5	\	0.8	MKCHA-900V106KEHGGB
		8.4	350	12.0	11.3	35	42.5 x 40 x 20	37.5	\	1	MKCHA-900V106KEIBC
	15	9.3	350	11.5	9.4	35	42.5 x 40 x 20	37.5	10.2	1	MKCHA-900V106KEIAC
		10.3	525	8.0	11.1	35	42.5 x 44 x 24	37.5	\	1	MKCHA-900V156KEIBC
	18	10.4	630	8.0	11.1	35	42.5 x 44 x 24	37.5	\	1	MKCHA-900V186KEIBC
		11.8	630	7.5	9.2	35	42.5 x 44 x 24	37.5	10.2	1	MKCHA-900V186KEIAC
	20	13.8	700	6.0	8.4	35	42.5 x 45 x 30	37.5	\	1	MKCHA-900V206KGJIBC
		14.8	700	5.5	8.0	35	42.5 x 45 x 30	37.5	20.3	1.2	MKCHA-900V206KGJIAD
	25	16.8	875	5.5	6.2	35	42.5 x 45 x 30	37.5	20.3	1.2	MKCHA-900V256KGJIAD
	30	18.8	1050	5.0	5.4	35	42.5 x 50 x 35	37.5	20.3	1.2	MKCHA-900V306KHKIAD
		14.9	450	5.5	8.0	15	57.5 x 45 x 30	52.5	20.3	1.2	MKCHA-900V306KGJLAD
	35	15.4	525	5.5	7.5	15	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-900V356KHKLAB
	40	15.9	600	6.5	6.0	15	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-900V406KHKLAB
	50	17.9	750	3.5	8.6	15	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-900V506KHKLAB
	55	19.0	825	3.5	7.9	15	57.5 x 60 x 35	52.5	20.3	1.2	MKCHA-900V556KHMLAD
		20.0	825	3.5	7.4	15	57.5 x 55 x 45	52.5	20.3	1.2	MKCHA-900V556KJLLAD
	60	20.0	900	3.5	7.4	15	57.5 x 55 x 45	52.5	20.3	1.2	MKCHA-900V606KJLLAD
		20.0	900	3.5	7.4	15	57.5 x 65 x 35	52.5	20.3	1.2	MKCHA-900V606KHNLAD
	65	22.0	975	3.0	6.3	15	57.5 x 70 x 35	52.5	20.3	1.2	MKCHA-900V656KHOLAD
	70	24.1	1050	3.0	5.4	15	57.5 x 53 x 50	52.5	20.3	1.2	MKCHA-900V706KKKLAB
		24.1	1050	3.0	5.4	15	57.5 x 80 x 35	52.5	20.3	1.2	MKCHA-900V706KHQLAD
80	25.2	1200	3.0	5.0	15	57.5 x 65 x 45	52.5	20.3	1.2	MKCHA-900V806KJNLAD	

MKCHA · PCB mount · 105 °C

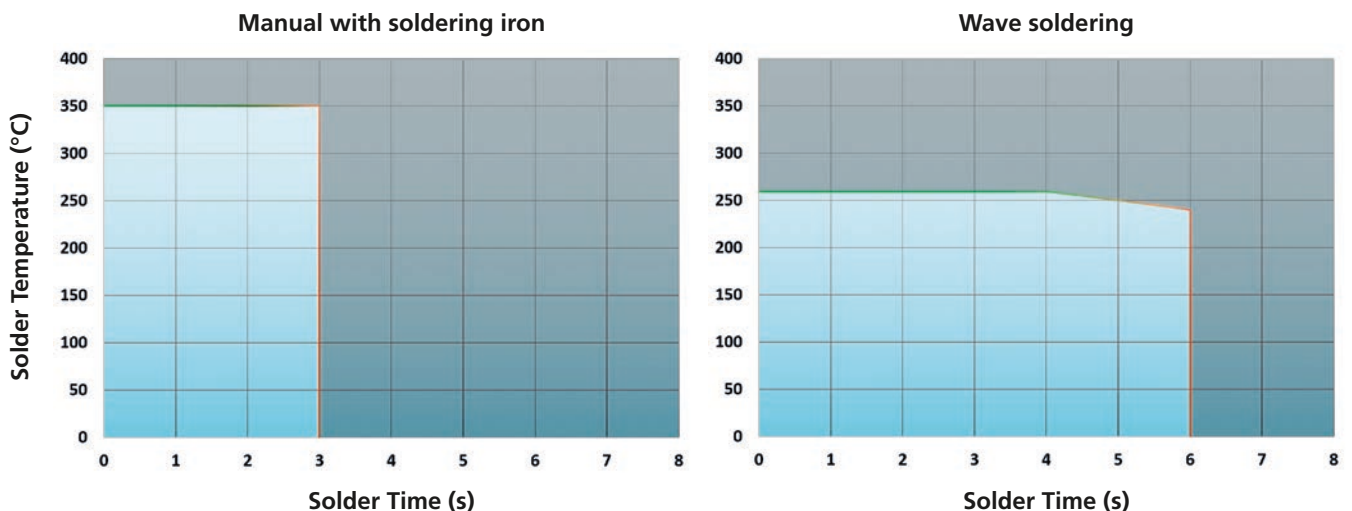
Rated DC Voltage U_N derating Voltage test between terminals U_{TT}	Nominal Capacitance C_N [μ F]	Ripple Current at 70°C 1k–10kHz I_r [A RMS]	Peak Current Maximum value \hat{I} [A]	ESR ESR [m Ω]	Thermal Resist. R_{th} [K/W]	dv/dt [V/ μ s]	Dimensions				Product Code	
							Case Size		Terminals			
							L x H x T [mm]	P1 [mm]	P2 [mm]	$\varnothing d$ [mm]		
1000 Vdc at 85°C 1300 Vdc at 70 °C 650 Vdc at 105 °C U_{TT} 1500Vdc/10s	1	2.5	70	46.0	34.9	70	32 x 20 x 11	27.5	\	0.8	MKCHA-1000V105KCEGGB	
	2	3.4	120	30.5	26.7	60	32 x 22 x 13	27.5	\	0.8	MKCHA-1000V205KCEGGB	
	3	4.9	180	25.5	15.7	60	32 x 24.5 x 15	27.5	\	0.8	MKCHA-1000V305KDEGGB	
	5	7.9	300	14.0	11.0	60	32 x 33 x 18	27.5	\	0.8	MKCHA-1000V505KDGGB	
	8	9.8	480	12.0	8.2	60	32 x 37 x 22	27.5	\	0.8	MKCHA-1000V805KEHGGB	
	10	8.4	350	12.0	11.3	35	42.5 x 40 x 20	37.5	\	1	MKCHA-1000V106KEIIBC	
		9.3	350	11.5	9.5	35	42.5 x 40 x 20	37.5	10.2	1	MKCHA-1000V106KEIIAC	
	12	10.3	420	9.0	10.0	35	42.5 x 44 x 24	37.5	10.2	1	MKCHA-1000V126KEIIAC	
		10.4	525	8.0	11.2	35	42.5 x 44 x 24	37.5	\	1	MKCHA-1000V156KEIIBC	
	15	11.8	525	7.5	9.2	35	42.5 x 44 x 24	37.5	10.2	1	MKCHA-1000V156KEIIAC	
		13.8	525	7.5	6.7	35	42.5 x 45 x 30	37.5	20.3	1.2	MKCHA-1000V156KGJIAD	
	20	14.8	700	6.5	6.7	35	42.5 x 45 x 30	37.5	20.3	1.2	MKCHA-1000V206KGJIAD	
	25	17.8	875	5.5	5.6	35	42.5 x 50 x 35	37.5	20.3	1.2	MKCHA-1000V256KHKIAD	
	30	14.9	450	5.5	8.1	15	57.5 x 45 x 30	52.5	20.3	1.2	MKCHA-1000V306KGJLAD	
	35	15.9	525	5.5	7.1	15	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-1000V356KHKLAD	
	40	15.9	600	5.0	7.8	15	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-1000V406KHKLAD	
		16.9	600	5.0	6.9	15	57.5 x 60 x 35	52.5	20.3	1.2	MKCHA-1000V406KHMLAD	
	50	19.0	750	4.5	6.2	15	57.5 x 55 x 45	52.5	20.3	1.2	MKCHA-1000V506KJLLAD	
		19.0	750	4.5	6.2	15	57.5 x 65 x 35	52.5	20.3	1.2	MKCHA-1000V506KHNLAD	
	55	20.0	825	4.0	5.7	15	57.5 x 70 x 35	52.5	20.3	1.2	MKCHA-1000V556KHOLAD	
22.1		900	4.0	5.3	15	57.5 x 53 x 50	52.5	20.3	1.2	MKCHA-1000V606KKKLAD		
60	22.1	900	4.0	5.3	15	57.5 x 80 x 35	52.5	20.3	1.2	MKCHA-1000V606KHQLAD		
	22.1	900	4.0	5.3	15	57.5 x 65 x 45	52.5	20.3	1.2	MKCHA-1000V606KJNLAD		
1100 Vdc at 85°C 1430 Vdc at 70 °C 720 Vdc at 105 °C U_{TT} 1650Vdc/10s	1	2.5	70	46.0	34.9	70	32 x 20 x 11	27.5	\	0.8	MKCHA-1100V105KCEGGB	
	1,5	3.4	105	30.5	26.7	70	32 x 22 x 13	27.5	\	0.8	MKCHA-1100V155KCEGGB	
	2	3.9	140	25.5	24.5	70	32 x 24.5 x 15	27.5	\	0.8	MKCHA-1100V205KDEGGB	
	2,2	4.9	154	17.0	23.8	70	32 x 28 x 14	27.5	\	0.8	MKCHA-1100V225KCFGGB	
	3,3	6.4	231	11.5	20.2	70	32 x 28 x 18	27.5	\	0.8	MKCHA-1100V335KDFGGB	
	4	7.9	280	10.5	14.6	70	32 x 33 x 18	27.5	\	0.8	MKCHA-1100V405KDGGB	
	5	8.4	350	9.5	14.4	70	32 x 37 x 22	27.5	\	0.8	MKCHA-1100V505KEHGGB	
	6,8	11.8	272	13.5	5.0	40	42.5 x 33.5 x 22	37.5	10.2	1	MKCHA-1100V685KEGIAC	
		10.3	320	14.0	6.4	40	42.5 x 40 x 20	37.5	\	1	MKCHA-1100V805KEIIBC	
	8	12.3	320	12.5	5.0	40	42.5 x 40 x 20	37.5	10.2	1	MKCHA-1100V805KEIIAC	
		12.3	320	12.5	5.0	40	42.5 x 37 x 22	37.5	10.2	1	MKCHA-1100V805KEHIAC	
	9	12.6	360	12.5	4.9	40	42.5 x 37 x 22	37.5	10.2	1	MKCHA-1100V905KEHIAC	
	10	13.8	400	9.0	5.6	40	42.5 x 44 x 24	37.5	\	1	MKCHA-1100V106KEIIBC	
		14.8	400	8.5	5.1	40	42.5 x 44 x 24	37.5	10.2	1	MKCHA-1100V106KEIIAC	
	12	15.3	480	7.5	5.4	40	42.5 x 45 x 30	37.5	20.3	1.2	MKCHA-1100V126KGJIAD	
	15	15.8	600	7.0	5.5	40	42.5 x 45 x 30	37.5	20.3	1.2	MKCHA-1100V156KGJIAD	
	18	15.4	720	7.5	5.5	40	42.5 x 50 x 35	37.5	20.3	1.2	MKCHA-1100V186KHKIAD	
	20	16.4	400	7.0	5.1	20	42.5 x 50 x 35	37.5	20.3	1.2	MKCHA-1100V206KHKIAD	
		11.9	400	8.5	8.1	20	57.5 x 45 x 30	52.5	20.3	1.2	MKCHA-1100V206KGJLAD	
	25	13.0	500	8.0	7.2	20	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-1100V256KHKLAD	
	30	15.0	600	5.0	8.9	20	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-1100V306KHKLAD	
	35	16.1	700	5.0	8.0	20	57.5 x 60 x 35	52.5	20.3	1.2	MKCHA-1100V356KHMLAD	
	40	17.1	800	5.5	6.3	20	57.5 x 65 x 35	52.5	20.3	1.2	MKCHA-1100V406KHNLAD	
		17.1	800	5.5	6.3	20	57.5 x 55 x 45	52.5	20.3	1.2	MKCHA-1100V406KJLLAD	
	45	18.2	900	5.5	5.8	20	57.5 x 70 x 35	52.5	20.3	1.2	MKCHA-1100V456KHOLAD	
	50	19.8	1000	5.0	5.2	20	57.5 x 65 x 45	52.5	20.3	1.2	MKCHA-1100V506KJNLAD	
		20.3	1000	4.5	5.7	20	57.5 x 53 x 50	52.5	20.3	1.2	MKCHA-1100V506KKKLAD	

Rated DC Voltage U_N derating Voltage test between terminals U_{TT}	Nominal Capacitance C_N [μ F]	Ripple Current at 70°C 1k–10kHz I_r [A RMS]	Peak Current Maximum value \hat{I} [A]	ESR ESR [m Ω]	Thermal Resist. R_{th} [K/W]	dv/dt [V/ μ s]	Dimensions			Product Code	
							Case Size L x H x T [mm]		Terminals		
							P1 [mm]	P2 [mm]	$\varnothing d$ [mm]		
1200 Vdc at 85°C 1560 Vdc at 70 °C 780 Vdc at 105 °C U_{TT} 1800 Vdc/10s	1	4.4	80	33.0	14.9	80	32 x 20 x 11	27.5	\	0.8	MKCHA-1200V105KCEGGB
	2	4.9	160	33.0	12.1	80	32 x 24.5 x 15	27.5	\	0.8	MKCHA-1200V205KDEGGB
	2,2	5.4	176	17.5	19.0	80	32 x 28 x 18	27.5	\	0.8	MKCHA-1200V225KDFGGB
	3	6.9	240	16.5	12.6	80	32 x 28 x 18	27.5	\	0.8	MKCHA-1200V305KDFGGB
	3,3	7.9	264	13.5	11.4	80	32 x 33 x 18	27.5	\	0.8	MKCHA-1200V335KDGGB
	5	9.8	400	12.0	8.2	80	32 x 37 x 22	27.5	\	0.8	MKCHA-1200V505KEHGGB
		7.4	225	15.5	11.3	45	42.5 x 33.5 x 22	37.5	\	1	MKCHA-1200V505KEGIBC
	6	7.4	270	15.5	11.3	45	42.5 x 40 x 20	37.5	\	1	MKCHA-1200V605KEIIBC
	7	7.9	315	15.5	10.1	45	42.5 x 37 x 22	37.5	10.2	1	MKCHA-1200V705KEHIAC
	8	8.9	360	12.5	9.8	45	42.5 x 44 x 24	37.5	10.2	1	MKCHA-1200V805KEIIAC
	10	9.9	450	10.5	9.4	45	42.5 x 44 x 24	37.5	10.2	1	MKCHA-1200V106KEIIAC
		11.8	450	8.0	8.6	45	42.5 x 45 x 30	37.5	20.3	1.2	MKCHA-1200V106KGJIAD
	15	14.9	675	6.5	6.7	45	42.5 x 50 x 35	37.5	20.3	1.2	MKCHA-1200V156KHKIAD
	20	12.9	500	8.5	7.0	25	57.5 x 45 x 30	52.5	20.3	1.2	MKCHA-1200V206KJLAD
		15.0	625	6.5	6.8	25	57.5 x 50 x 35	52.5	20.3	1.2	MKCHA-1200V256KHLAD
	30	17.0	750	5.5	6.3	25	57.5 x 55 x 45	52.5	20.3	1.2	MKCHA-1200V306KJLLAD
		17.0	750	5.5	6.3	25	57.5 x 60 x 35	52.5	20.3	1.2	MKCHA-1200V306KHMLAD
	35	18.1	875	5.0	6.2	25	57.5 x 55 x 45	52.5	20.3	1.2	MKCHA-1200V356KJLLAD
18.1		875	5.0	6.2	25	57.5 x 70 x 35	52.5	20.3	1.2	MKCHA-1200V356KHOLAD	
40	20.1	1000	4.5	5.6	25	57.5 x 53 x 50	52.5	20.3	1.2	MKCHA-1200V406KKKLAD	
45	22.2	1125	4.0	4.8	25	57.5 x 65 x 45	52.5	20.3	1.2	MKCHA-1200V456KJNLAD	
1500 Vdc at 85°C 1950 Vdc at 70 °C 980 Vdc at 105 °C U_{TT} 2250 Vdc/10s	6,5	11.8	293	10.5	6.5	45	42 x 42 x 28	37.5	10.3	1	MKCHA-1500V655KFIIAC
	11	19.6	71	6.5	3.7	30	42 x 50 x 35	37.5	20.3	1.2	MKCHA-1500V116KHKIAD

Additional designs on request · Weitere Designs auf Anfrage

> Soldering Parameters · Lötparameter

- Manual with soldering iron · LötKolben: **Max. 350°C/3s**
- Wave soldering · Wellenlöten: **Max. 260°C/4s or 250°C/6s**



> Life Time Table · Brauchbarkeitsdauer – Tabelle

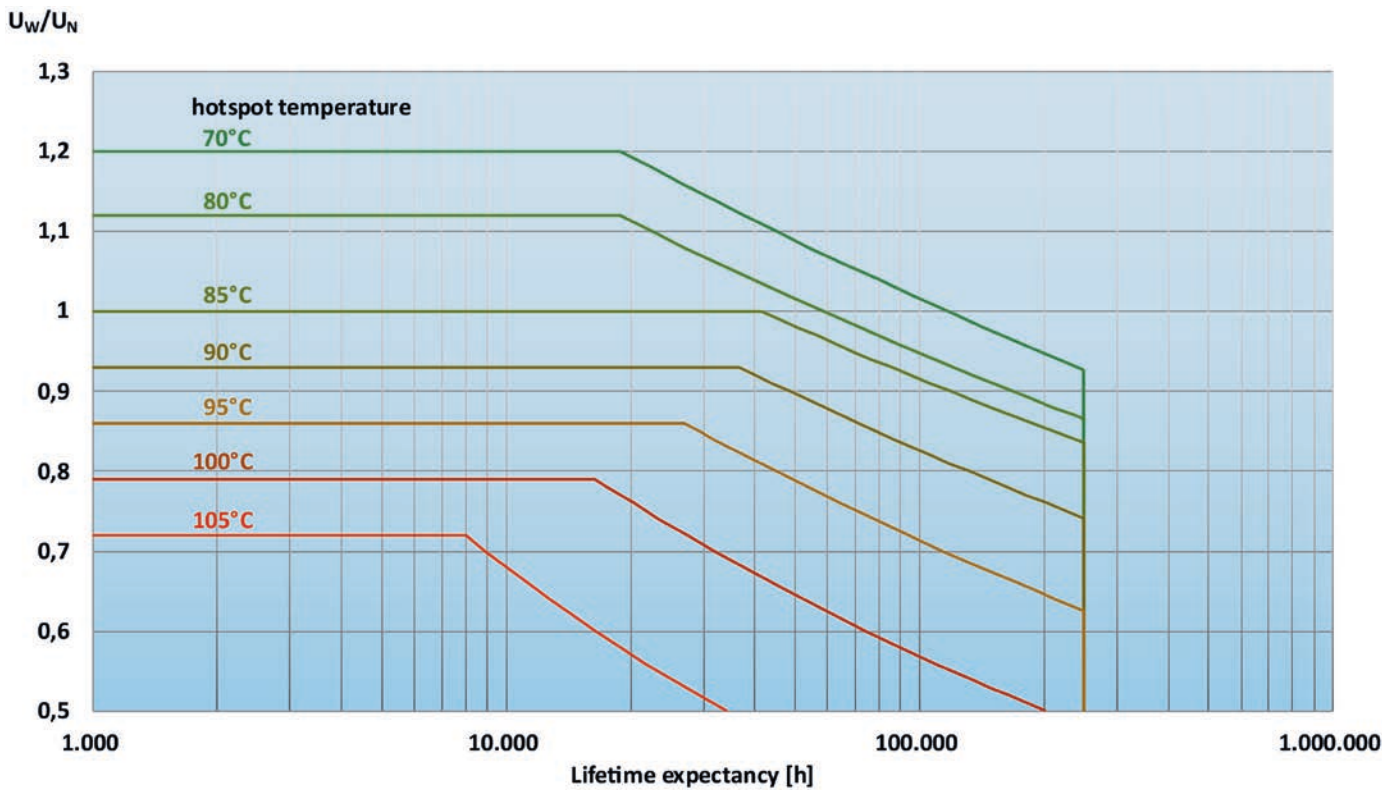
Lifetime as function of ratio between the effective working voltage U_w and the rated DC voltage U_N													
$T_{HOTSPOT}$	x 0.5	x 0.6	x 0.7	x 0.75	x 0.8	x 0.85	x 0.9	x 0.95	x 1.0	x 1.05	x 1.1	x 1.15	x 1.20
50 °C	250	250	250	250	250	250	250	250	250	250	181	116	76
60 °C	250	250	250	250	250	250	250	250	234	144	91	58	38
70 °C	250	250	250	250	250	250	250	196	117	72	45	29	19
75 °C	250	250	250	250	250	250	238	138	83	51	32	21	
80 °C	250	250	250	250	250	250	168	98	59	36	23		
85 °C	250	250	250	250	250	210	119	69	42				
90 °C	250	250	250	228	132	79	48	30					
95 °C	250	250	114	70	45	30							
100 °C	200	75	32	22	16								
105 °C	34	17	9										

khrs value limited to 250 000 hours.

> Life Time Graph · Brauchbarkeitsdauer – Diagramm

Lifetime expectancy depending on hotspot temperature $T_{HOTSPOT}$ versus ratio between the effective working voltage U_w and the rated DC voltage U_N

Lebenserwartung in Abhängigkeit von der hotspot Temperatur $T_{HOTSPOT}$ und dem Verhältnis der tatsächlich anliegenden Spannung zur DC Nennspannung U_N



$$T_{HOTSPOT} = T_a + I^2 \times ESR \times R_{th}$$