

KN Type Snap-in -40°C +105°C 5000H

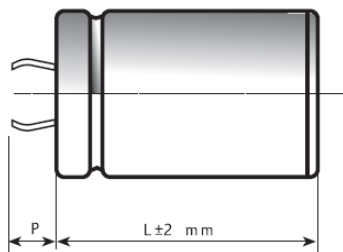
- Surge-proof capacitor in aluminium can with insulation sleeve
- Safety vent at the base of the can or at the side of the can
- Snap in terminals for PCB mounting.
- Very high CV for unit volume with low ESR
- High ripple current in small case size.
- Extended temperature range with outstanding reliability.

APPLICATIONS

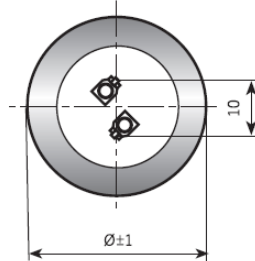
Professional switch mode power supplies, professional power electronics.

Dimensions in mm.

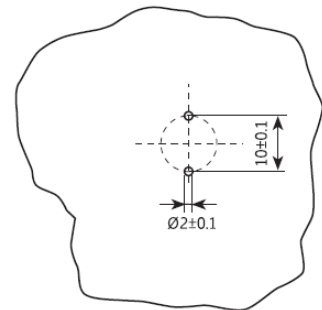
2 PIN CAPACITOR



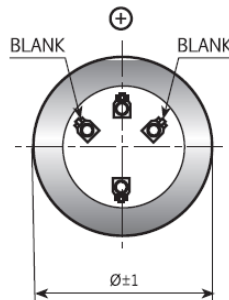
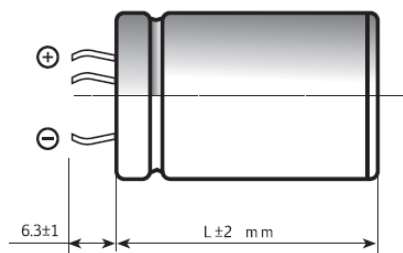
PIN LENGTH
P 4.5 short pin
P 6.3 long pin (standard)



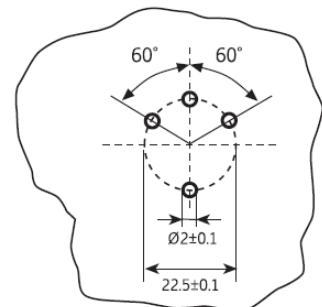
Circuit board
hole dimensions



4 PIN CAPACITOR



Circuit board
hole dimensions



KN TYPE SPECIFICATIONS

	Capacitance μF	$\varnothing \times L$ mm	Tan δ MAX 100 Hz 20°C	ESR TYP m Ω 100 Hz 20°C	Z TYP m Ω 10 kHz 20°C	I _r a.c. A max 100 Hz 105°C	PART NUMBER standard insert style no stud
RATED VOLTAGE VDC 16V	6,800	25x30	0.30	55	40	1.9	KN682MA25030AA1
	10,000	25x40	0.40	45	35	2.0	KN103MA25040AA1
	10,000	30x30	0.40	40	35	2.0	KN103MA30030AA1
	15,000	25x40	0.45	40	35	2.6	KN153MA25040AA1
	15,000	30x40	0.45	40	35	2.8	KN153MA30040AA1
	22,000	30x40	0.60	35	24	3.1	KN223MA30040AA1
	22,000	35x40	0.60	35	24	3.3	KN223MA35040AA1
	33,000	35x50	0.70	25	20	3.6	KN333MA35050AA1
	47,000	35x50	0.90	22	20	4.9	KN473MA35050AA1

	Capacitance μF	$\varnothing \times L$ mm	Tan δ MAX 100 Hz 20°C	ESR TYP m Ω 100 Hz 20°C	Z TYP m Ω 10 kHz 20°C	I _r a.c. A max 100 Hz 105°C	PART NUMBER standard insert style no stud
RATED VOLTAGE VDC 25V	4,700	25x30	0.25	53	45	1.8	KN472MB25030AA1
	6,800	25x30	0.25	50	38	2.0	KN682MB25030AA1
	6,800	30x30	0.30	50	38	2.2	KN682MB30030AA1
	10,000	25x40	0.40	40	35	2.4	KN103MB25040AA1
	10,000	30x30	0.40	40	35	2.3	KN103MB30030AA1
	15,000	30x40	0.45	39	28	2.9	KN153MB30040AA1
	15,000	35x40	0.45	39	28	3.2	KN153MB35040AA1
	22,000	35x50	0.60	30	22	3.3	KN223MB35050AA1
	33,000	35x50	0.70	22	18	4.3	KN333MB35050AA1

	Capacitance μF	$\varnothing \times L$ mm	Tan δ MAX 100 Hz 20°C	ESR TYP m Ω 100 Hz 20°C	Z TYP m Ω 10 kHz 20°C	I _r a.c. A max 100 Hz 105°C	PART NUMBER standard insert style no stud
RATED VOLTAGE VDC 40V	3,300	25x30	0.20	72	58	1.5	KN332MC25030AA1
	4,700	25x30	0.20	50	38	1.8	KN472MC25030AA1
	4,700	30x25	0.20	50	38	1.8	KN472MC30025AA1
	6,800	25x40	0.30	48	33	2.3	KN682MC25040AA1
	6,800	30x30	0.30	48	33	2.4	KN682MC30030AA1
	10,000	30x40	0.40	39	28	2.8	KN103MC30040AA1
	10,000	35x30	0.40	39	28	2.9	KN103MC35030AA1
	15,000	30x40	0.45	32	22	2.8	KN153MC30040AA1
	15,000	35x40	0.45	32	22	3.7	KN153MC35040AA1
	22,000	35x50	0.55	28	20	5.4	KN223MC35050AA1

KN TYPE SPECIFICATIONS

RATED VOLTAGE VDC	Capacitance μ F	\varnothing x L mm	Tan δ	ESR	Z	I _r a.c.	PART NUMBER standard insert style no stud
			MAX 100 Hz 20°C	TYP m Ω 100 Hz 20°C	TYP m Ω 10 kHz 20°C	A max 100 Hz 105°C	
50V	2,200	25x30	0.20	72	58	1.5	KN222MD25030AA1
	3,300	25x30	0.20	48	38	1.6	KN332MD25030AA1
	4,700	25x30	0.20	50	35	2.0	KN472MD25030AA1
	4,700	30x25	0.20	50	35	2.0	KN472MD30025AA1
	4,700	30x30	0.20	50	35	2.4	KN472MD30030AA1
	6,800	30x30	0.30	46	28	2.9	KN682MD30030AA1
	6,800	30x40	0.30	46	28	3.2	KN682MD30040AA1
	10,000	30x40	0.35	31	22	3.4	KN103MD30040AA1
	10,000	35x40	0.35	31	22	3.6	KN103MD35040AA1
	15,000	35x50	0.45	26	18	4.7	KN153MD35050AA1
	22,000	40x50	0.50	25	18	5.5	KN223MD40050AA1

RATED VOLTAGE VDC	Capacitance μ F	\varnothing x L mm	Tan δ	ESR	Z	I _r a.c.	PART NUMBER standard insert style no stud
			MAX 100 Hz 20°C	TYP m Ω 100 Hz 20°C	TYP m Ω 10 kHz 20°C	A max 100 Hz 105°C	
63V	2,200	25x30	0.15	79	60	1.5	KN222ME25030AA1
	3,300	25x40	0.15	50	40	2.3	KN332ME25040AA1
	3,300	30x30	0.15	50	40	2.1	KN332ME30030AA1
	4,700	30x30	0.20	40	29	2.4	KN472ME30030AA1
	4,700	30x40	0.20	40	29	2.8	KN472ME30040AA1
	6,800	30x40	0.30	35	25	3.0	KN682ME30040AA1
	6,800	35x40	0.30	35	25	4.4	KN682ME35040AA1
	10,000	35x50	0.35	30	23	5.3	KN103ME35050AA1

RATED VOLTAGE VDC	Capacitance μ F	\varnothing x L mm	Tan δ	ESR	Z	I _r a.c.	PART NUMBER standard insert style no stud
			MAX 100 Hz 20°C	TYP m Ω 100 Hz 20°C	TYP m Ω 10 kHz 20°C	A max 100 Hz 105°C	
100V	1,000	25x30	0.10	127	100	1.7	KN102MG25030AA1
	1,000	30x25	0.10	127	100	1.7	KN102MG30025AA1
	1,500	25x40	0.12	105	82	2.0	KN152MG25040AA1
	1,500	30x30	0.12	105	82	1.8	KN152MG30030AA1
	2,200	30x30	0.15	71	60	2.7	KN222MG30030AA1
	2,200	30x40	0.15	71	60	2.7	KN222MG30040AA1
	3,300	30x50	0.15	48	39	3.0	KN332MG30050AA1
	3,300	35x40	0.15	48	39	3.3	KN332MG35040AA1
	4,700	35x40	0.15	42	30	3.6	KN472MG35040AA1
	4,700	35x50	0.20	33	26	4.4	KN472MG35050AA1
	5,600	40x50	0.20	33	24	4.8	KN562MG40050AA1
	6,800	40x50	0.20	33	24	4.9	KN682MG40050AA1

KN TYPE SPECIFICATIONS

	Capacitance μF	$\varnothing \times \text{L}$ mm	Tan δ MAX 100 Hz 20°C	ESR TYP m Ω 100 Hz 20°C	Z TYP m Ω 10 kHz 20°C	I _r a.c. A max 100 Hz 105°C	PART NUMBER standard insert style no stud
RATED VOLTAGE VDC 200V	220	22x30	0.10	440	340	0.9	KN221MI22030AA1
	220	25x30	0.10	440	340	1.1	KN221MI25030AA1
	330	22x30	0.10	240	133	1.1	KN331MI22030AA1
	330	25x25	0.10	240	133	0.7	KN331MI25025AA1
	330	25x30	0.10	240	133	1.2	KN331MI25030AA1
	470	25x30	0.10	169	98	1.6	KN471MI25030AA1
	470	30x30	0.10	169	98	1.8	KN471MI30030AA1
	680	25x40	0.10	145	87	1.7	KN681MI25040AA1
	680	30x40	0.10	145	87	2.0	KN681MI30040AA1
	1,000	30x40	0.10	95	63	2.1	KN102MI30040AA1
	1,000	35x30	0.10	95	63	2.4	KN102MI35030AA1
	1,500	30x50	0.10	70	41	2.4	KN152MI30050AA1
	1,500	35x50	0.10	70	41	2.6	KN152MI35050AA1
	2,200	35x50	0.12	45	33	2.8	KN222MI35050AA1

	Capacitance μF	$\varnothing \times \text{L}$ mm	Tan δ MAX 100 Hz 20°C	ESR TYP m Ω 100 Hz 20°C	Z TYP m Ω 10 kHz 20°C	I _r a.c. A max 100 Hz 105°C	PART NUMBER standard insert style no stud
RATED VOLTAGE VDC 250V	100	25x30	0.10	950	730	0.7	KN101MJ25030AA1
	150	25x30	0.10	530	290	0.7	KN151MJ25030AA1
	220	25x30	0.10	370	240	0.9	KN221MJ25030AA1
	330	30x30	0.10	260	153	1.2	KN331MJ30030AA1
	470	25x40	0.10	180	110	1.5	KN471MJ25040AA1
	470	30x30	0.10	180	110	1.5	KN471MJ30030AA1
	680	35x40	0.10	145	95	1.8	KN681MJ35040AA1
	1,000	35x50	0.10	98	65	2.6	KN102MJ35050AA1
	1,500	35x50	0.12	75	43	2.8	KN152MJ35050AA1

KN TYPE SPECIFICATIONS

RATED VOLTAGE VDC 400V	Capacitance	Ø x L	Tan δ	ESR	Z	I _r a.c.	PART NUMBER
	µF	mm	MAX 100 Hz 20°C	TYP m Ω 100 Hz 20°C	TYP m Ω 10 kHz 20°C	A max 100 Hz 105°C	standard insert style no stud
	68	25x30	0.10	1405	1050	0.5	KN680ML25030AA1
	100	22x30	0.10	796	550	0.5	KN101ML22030AA1
	100	25x30	0.10	796	550	0.5	KN101ML25030AA1
	150	25x30	0.10	530	380	0.6	KN151ML25030AA1
	150	30x30	0.10	530	380	0.8	KN151ML30030AA1
	220	25x40	0.10	360	250	1.0	KN221ML25040AA1
	220	30x30	0.10	360	250	1.1	KN221ML30030AA1
	270	25x40	0.10	320	199	1.2	KN271ML25040AA1
	330	25x45	0.10	249	170	1.3	KN331ML25045AA1
	330	30x40	0.10	240	170	1.4	KN331ML30040AA1
	330	35x30	0.10	240	170	1.4	KN331ML35030AA1
	330	35x40	0.10	240	170	1.6	KN331ML35040AA1
	470	30x50	0.10	170	125	1.9	KN471ML30050AA1
	470	35x40	0.10	170	125	1.7	KN471ML35040AA1
	470	35x50	0.10	170	125	2.0	KN471ML35050AA1
	680	35x50	0.10	158	110	1.9	KN681ML35050AA1
	680	40x50	0.10	158	110	2.2	KN681ML40050AA1
	820	35x60	0.10	110	95	2.5	KN821ML35060AA1
	1,000	40x60	0.10	95	70	3.1	KN102ML40060AA1
	1,500	40X97	0.10	99	68	5.8	KN152ML40097AA1

RATED VOLTAGE VDC 450V	Capacitance	Ø x L	Tan δ	ESR	Z	I _r a.c.	PART NUMBER
	µF	mm	MAX 100 Hz 20°C	TYP m Ω 100 Hz 20°C	TYP m Ω 10 kHz 20°C	A max 100 Hz 105°C	standard insert style no stud
	68	25x30	0.10	1405	1050	0.5	KN680MN25030AA1
	100	25x30	0.10	796	710	0.5	KN101MN25030AA1
	100	30x25	0.10	796	550	0.7	KN101MN30025AA1
	100	30x30	0.10	796	550	0.8	KN101MN30030AA1
	150	25x40	0.10	660	490	0.9	KN151MN25040AA1
	150	30x30	0.10	530	380	0.8	KN151MN30030AA1
	150	30x40	0.10	530	380	1.0	KN151MN30040AA1
	220	25x50	0.10	380	310	1.1	KN221MN25050AA1
	220	30x40	0.10	360	250	1.1	KN221MN30040AA1
	220	35x30	0.10	360	250	1.1	KN221MN35030AA1
	330	30x50	0.10	240	170	1.4	KN331MN30050AA1
	330	35x40	0.10	240	170	1.4	KN331MN35040AA1
	330	35x50	0.10	240	170	1.8	KN331MN35050AA1
	470	35x50	0.10	170	125	1.8	KN471MN35050AA1
	680	35x50	0.15	252	182	1.5	KN681MN35050AA1
	680	35x60	0.12	158	110	2.2	KN681MN35060AA1
	820	40x60	0.13	125	100	2.3	KN821MN40060AA1
	1,000	40x60	0.13	110	90	3.2	KN102MN40060AA1
	1,500	40X97	0.15	90	80	4.1	KN152MN40097AA1