



Technical data

■ Version	Standard: KNB156x Custom design: KNB156x CD
■ Application	Version KNB156x: for use in parallel with the mains Version KNB156x CD: for capacitive divider power supply (serial with the mains), such as power meter, emergency lighting, thermostat, etc.
■ Construction	polypropylene film, metallized
■ Rated voltage	275 V AC
■ Capacitance tolerance	± 20 % for $C \leq 0.1 \mu\text{F}$ ± 10 % for $C > 0.1 \mu\text{F}$
■ Climatic category	40/110/56 acc. to IEC 60068-1
■ Passive flammability	acc. to IEC 60384-14
■ Temperature range	-40 ° to +110 °C
■ Test voltage	2200 V DC, 1 s for $C \leq 1 \mu\text{F}$ 1900 V DC, 1 s for $C > 1 \mu\text{F}$
■ Max. pulse rise time du/dt , at 390 V DC	500 V / μs for PCM = 10 mm 400 V / μs for PCM = 15 mm $C \leq 0.022 \mu\text{F}$ 250 V / μs for PCM = 15 mm $C > 0.022 \mu\text{F}$ 150 V / μs for PCM = 22.5 mm 100 V / μs for PCM = 27.5 mm 500 V / μs for PCM = 7.5 mm miniature version 350 V / μs for PCM = 10 mm miniature version acc. to IEC 60384-14
■ Insulation resistance at 20 °C, $U_n = 100 \text{ V DC}$, $t = 1 \text{ min}$	$R_i \geq 15000 \text{ M}\Omega$ for $C \leq 0.33 \mu\text{F}$ $R_i \times C_n \geq 5000 \text{ s}$ for $C > 0.33 \mu\text{F}$
■ Dielectric loss $\tan \delta$ at $f = 1 \text{ kHz}$ and 20 °C	$\leq 1 \times 10^{-3}$
■ Soldering	IEC 60068-2-20, max. 2 s
■ Resistance to soldering heat	IEC 60068-2-20, 260 °C ± 5 °C, 10 s ± 1 s
■ Self inductance	approx. 10 nH/cm of capacitor length and terminals
■ Complies to	IEC 60384-14, UL 60384-14 CSA 60384-14

Capacitors

Type KNB156x and KNB156x CD



Casing: thermoplastic (PP or on request PBT HF) sealed with synthetical resin

Thermoplastic material and synthetical resin are self-extinguishing according to UL 94, class V-0.

Terminals		
Type	Terminal length	Type of terminals
KNB1560, KNB1560 CD	3 ^{±0.5} , 4 ^{±0.5} , 6 ^{±1} , 9 ^{±1} , 15 ^{±2} , 20 ^{±2} , 25 ^{±3} , 30 ^{±3} , 50 ^{±6} mm, other on request	Tinned copper wire
KNB1562, KNB1562 CD	20 to 200 mm	Insulated stranded wire 0.5 mm ²
KNB1563, KNB1563 CD	20 to 200 mm	Insulated solid wire ϕ 0.8 mm. Terminal ends on request.

Standard capacitor values KNB156x, 275 V AC, class X2 KNB156x CD, 275 V AC, class X2

Capacitance C (pF)	Dimensions						For capacitors with insulated leads on request	
	L (mm)	H (mm)	W (mm)	PCM (mm)	ϕ (mm)			
0.01	13	9	4	10	0.6	●	●	●
0.015	13	9	4	10	0.6	●	●	●
0.022	13	9	4	10	0.6	●	●	●
0.033	13	9	4	10	0.6	●	●	●
0.033	13	10.5	5	10	0.6	●	●	●
0.047	13	10.5	5	10	0.6	●	●	●
0.047	13	11.5	6	10	0.6	●	●	●
0.068	13	11	5.5	10	0.6	●	●	●
0.1	13	12	6	10	0.6	●	●	●
0.01	18	11	5	15	0.8	●	●	●
0.015	18	11	5	15	0.8	●	●	●
0.022	18	11	5	15	0.8	●	●	●
0.033	18	11	5	15	0.8	●	●	●
0.047	18	11	5	15	0.8	●	●	●
0.068	18	11	5	15	0.8	●	●	●
0.1	18	11	5.5	15	0.8	●	●	●
0.12	18	12	6	15	0.8	●	●	●
0.15	18	13	7	15	0.8	●	●	●
0.22	18	14.5	8.2	15	0.8	●	●	●
0.27	18	14.5	9	15	0.8	●	●	●
0.33	18	16	9.5	15	0.8	●	●	●
0.33	18	19.5	7.5	15	0.8	●	●	●
0.47	18	18.5	11	15	0.8	●	●	●
0.56	18	20	12.5	15	0.8	●	●	●
0.15	26.5	14	6	22.5	0.8	●	●	●
0.22	26.5	14	6	22.5	0.8	●	●	●
0.27	26.5	15	6	22.5	0.8	●	●	●
0.33	26.5	16	7	22.5	0.8	●	●	●
0.47	26.5	17	8.5	22.5	0.8	●	●	●
0.56	26.5	18.5	9	22.5	0.8	●	●	●
0.68	26.5	18.5	10	22.5	0.8	●	●	●
1	26.5	21.5	12.5	22.5	0.8	●	●	●
0.47	31.5	16	7.5	27.5	0.8	●	●	●
0.56	32	17	9	27.5	0.8	●	●	●
0.68	32	17	9	27.5	0.8	●	●	●
1	32	20	11	27.5	0.8	●	●	●
1.5	31.5	23.5	14	27.5	0.8	●	●	●
2.2	31.5	26.5	17	27.5	0.8	●	●	●

● Approvals in use