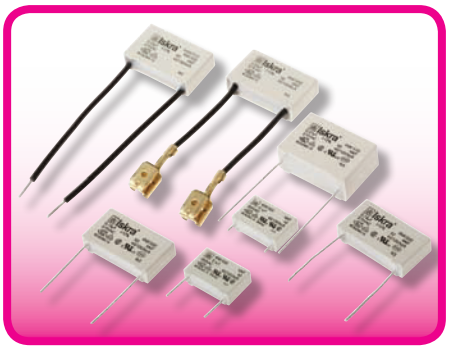
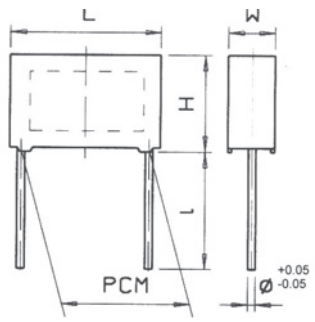
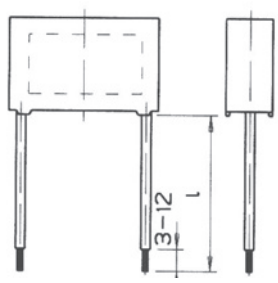
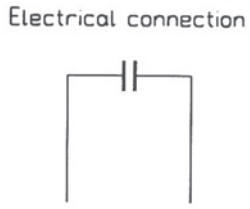
Capacitors

Type KNB1530 Type KNB1532 Type KNB1533	275 V AC 300 V AC	class **X2**



TECHNICAL DATA

Construction:	polypropylene film, metallized
Rated voltage:	275 V A.C., 300 V A.C.
Capacitance tolerance:	± 20 % for C ≤ 0,1 µF and ± 10 % for C > 0,1 µF
Climatic category:	40/100/56 according to IEC 60068-1
Passive flammability:	according to IEC 60384-14
Temperature range:	- 40 °C to + 100 °C
Test voltage:	2635 V D.C., 1 s
Max. pulse rise time du/dt, at 390 V D.C. for 275 V A.C. and 425 V D.C. for 300 V A.C.:	900 V/µs for PCM = 10 mm 400 V/µs for PCM = 15 mm 200 V/µs for PCM = 22.5 mm 160 V/µs for PCM = 27.5 mm 100 V/µs for PCM = 37.5 mm
Insulation resistance at 20 °C, U_m = 100 V D.C., t =1 min:	$R_i \geq 15000$ MΩ for C ≤ 0.33 µF $R_i \times C_n \geq 5000$ s for C > 0.33 µF
Dielectric loss tanδ at f = 1 kHz and 20 °C:	$\leq 5 \times 10^{-4}$
Soldering:	IEC 60068-2-20, max. 2 s
Soldering time on printed circuit:	max. 5 s at 270 °C
Self inductance:	approx. 10 nH/cm of capacitor length and terminals
Complies to:	IEC 60384-14, UL 1283, UL1414, EN 60384-14, CSA C22.2 No.1, CSA E384-14, GB/T 14472 - 1998

KNB1530	KNB1532, KNB1533	Electrical connection
		

Available in custom design version. Recommended for serial connection.

ø 0.6 mm for PCM = 10 mm
ø 0.8 mm for PCM > 10 mm

Casing: thermoplastic, (PP or on request PBT HF) sealed with synthetical resin	Thermoplastic material is self-extinguishing according to UL 94, class V-0.

Terminals		
Type	Terminal length	Type of terminals
KNB1530	$3^{\pm 0.5}$, $4^{\pm 0.5}$, 6^{-1}, $9^{\pm 1}$, $15^{\pm 2}$, $20^{\pm 2}$, $25^{\pm 5}$, $30^{\pm 5}$, $50^{\pm 5}$ mm, other on request	Tinned copper wire
KNB1532	20 to 200 mm	Insulated stranded wire 0.5 mm^2
KNB1533	20 to 200 mm	Insulated solid wire ø 0,8 mm End terminals on request

Standard values KNB1530, KNB1532, KNB1533, 275 V AC, class X2

Capacitance	Dimensions					For capacitors with insulated leads on request				
C (µF)	L_{max} (mm)	H_{max} (mm)	W_{max} (mm)	PCM (mm)	IEC 60384-14 275 V AC	UL 1283 300 V AC	UL 1414 250 V AC	C22.2 No.1 250 V AC	GB/T14472 275 V AC	E384-14-95 275 V AC
0.01*	13	9.5	4.3	10	▪	▪	▪	▪	▪	▪
0.015*	13	10.5	5	10	▪	▪	▪	▪	▪	▪
0.022*	13	11.5	6	10	▪	▪	▪	▪	▪	▪
0.01	18	11	5.5	15	▪	▪	▪	▪	▪	▪
0.015	18	11	5.5	15	▪	▪	▪	▪	▪	▪
0.022	18	11	5.5	15	▪	▪	▪	▪	▪	▪
0.033	18	11	5.5	15	▪	▪	▪	▪	▪	▪
0.047	18	11	5.5	15	▪	▪	▪	▪	▪	▪
0.068	18	12	6	15	▪	▪	▪	▪	▪	▪
0.1*	18	12	6	15	▪	▪	▪	▪	▪	▪
0.1	18	13	7	15	▪	▪	▪	▪	▪	▪
0.12	18	13.5	7.5	15	▪					▪
0.15*	18	14.5	9	15	▪	▪	▪			▪
0.22*	18	19	10	15	▪	▪	▪			▪
0.33*	18	20	12.5	15	▪	▪	▪	▪	▪	▪
0.15	27	15	6.5	22.5	▪	▪	▪	▪	▪	▪
0.22	27	16.5	7	22.5	▪	▪	▪	▪	▪	▪
0.27	27	18.5	8.5	22.5	▪	▪	▪	▪	▪	▪
0.33	27	18.5	8.5	22.5	▪	▪	▪	▪	▪	▪
0.47	27	20	10.5	22.5	▪	▪	▪	▪	▪	▪
0.47*	26	22	9.5	22.5	▪	▪	▪	▪	▪	▪
0.47	32	20	11	27.5	▪	▪	▪	▪	▪	▪
0.56	31.5	19	10	27.5	▪	▪				▪
0.68	32	20	11	27.5	▪	▪	▪	▪	▪	▪
1	32	24.5	15	27.5	▪	▪	▪	▪	▪	▪
1*	31.5	22	13	27.5	▪	▪	▪	▪	▪	▪
1.5	32	28	18	27.5	▪	▪			▪	▪
2.2	32	33	20	27.5	▪	▪			▪	▪
1.5	41.5	23	14	37.5	▪	▪			▪	▪
2.2	41.5	26	18	37.5	▪	▪			▪	▪
2.2	41.5	31	18	37.5	▪	▪			▪	▪

* mini size
marking with 

Approvals in use = ▪
Approvals in pending = o

Note: KNB1532 and KNB1533 with PCM = 10 mm are not available with VDE-ENEC.

Standard values KNB1530, KNB1532, KNB1533, 300 V AC, class X2

Capacitance	Dimensions					For capacitors with insulated leads on request			
C (µF)	L_{max} (mm)	H_{max} (mm)	W_{max} (mm)	PCM (mm)	IEC 60384-14 300 V AC	UL 1283 300 V AC	UL 1414 250 V AC	C22.2 No.1 250 V AC	E384-14-95 300 V AC
0.01	13	9	4	10	▪	▪	▪	▪	▪
0.015	13	9	4	10	▪	▪	▪	▪	▪
0.022	13	10.5	5	10	▪	▪	▪	▪	▪
0.033	13	11.5	6	10	▪	▪	▪	▪	▪
0.047	13	13.5	6	10	▪	▪	▪	▪	▪
0.01	18	11	5	15	▪	▪	▪	▪	▪
0.015	18	11	5	15	▪	▪	▪	▪	▪
0.022	18	11	5	15	▪	▪	▪	▪	▪
0.033	18	11	5	15	▪	▪	▪	▪	▪
0.047	18	11	5	15	▪	▪	▪	▪	▪
0.068	18	11	5.5	15	▪	▪	▪	▪	▪
0.1	18	12	6	15	▪	▪	▪	▪	▪
0.12	18	13	7	15	▪	▪	▪		▪
0.15	18	13.5	7.5	15	▪	▪	▪	▪	▪
0.22	18	16.5	8.5	15	▪	▪	▪	▪	▪
0.27	18	18.5	11	15	▪	▪	o	▪	▪
0.33	18	18.5	11	15	▪	▪	▪	▪	▪
0.1	26.5	14	6	22.5	▪	▪	o	▪	▪
0.15	26.5	14	6	22.5	▪	▪	▪	▪	▪
0.22	27	15	6.5	22.5	▪	▪	▪	▪	▪
0.33	26.5	16.5	8.5	22.5	▪	▪	▪	▪	▪
0.47	26.5	18.5	10	22.5	▪	▪	▪	▪	▪
0.56	27	20	10.5	22.5	▪	▪	▪		▪
0.33	31.5	16	7.5	27.5	▪	▪	o	▪	▪
0.47	32	17	9	27.5	▪	▪	▪	▪	▪
0.68	32	18.5	11	27.5	▪	▪	▪	▪	▪
1	31.5	22	13	27.5	▪	▪	▪	▪	▪
1.5	31.5	26.5	17	27.5	▪	▪			▪
2.2	31.5	32	18	27.5	▪	▪			▪
2.7	31.5	32	18	27.5	▪	▪			
3.3	31.5	32	18	27.5	▪	▪			
3.3	31.5	33	20	27.5	▪	▪			▪
3.9	31.5	33	20	27.5	▪	▪			
4.7	32	39	24	27.5	▪	▪			
5.6	32	39	24	27.5	▪	▪			
1.5	41.5	22	14	37.5	▪	▪			▪
2.2	41.5	27	16	37.5	▪	▪			▪
2.2	41.5	26	18	37.5	▪	▪			▪
3.3	41.5	26	18	37.5	▪	▪			
3.9	41.5	31	18	37.5	▪	▪			
4.7	41.5	32	19	37.5	▪	▪			
3.6	41.5	38	21	37.5	▪	▪			
6.8	41.5	38	21	37.5	▪	▪			
8.2	41.5	43	28	37.5	▪	▪			
10	41.5	43	28	37.5	▪	▪			
10	42	45	30	37.5	▪	▪			

* mini size
marking with

Approvals in use = ▪
Approvals in pending = o

Note: KNB1532 and KNB1533 with PCM = 10 mm are not available with VDE-ENEC.