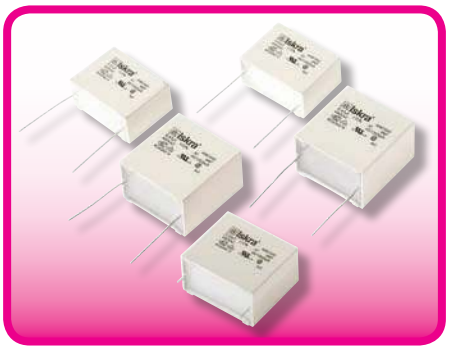
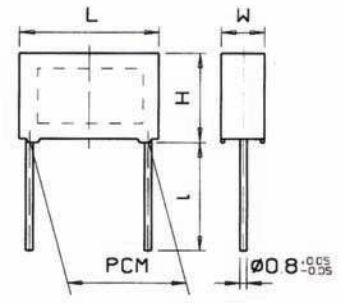
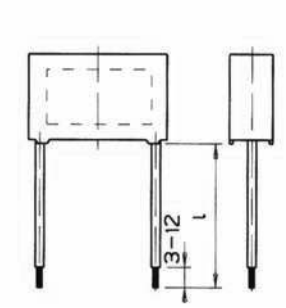
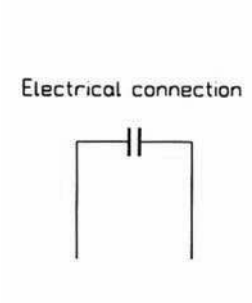
Capacitors

Type KNB1540 Type KNB1542 Type KNB1543	440 V AC	class **X1**



TECHNICAL DATA

Construction:	polypropylene film, metallized
Rated voltage:	440 V A.C.
Capacitance tolerance:	± 20 % for C ≤ 0.1 µF ± 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:	3500 V D.C., 1 s
Max. pulse rise time du/dt, at 622 V D.C.:	3000 V/µs for PCM = 15 mm 1500 V/µs for PCM = 22.5 mm 1100 V/µs for PCM = 27.5 mm according to IEC 60384-14
Insulation resistance at 20 °C, U_m = 100 V D.C., t =1 min:	R_i ≥ 15000 MΩ for C ≤ 0,33 µF Ri × C_n ≥ 5000 s for C > 0,33 µF
Dielectric loss tanδ at f = 1 kHz and 20 °C:	≤ 5 × 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, EN 60384-14, UL 1283, UL 1414, CSA C22.2 No.1

KNB1540	KNB1542, KNB1543	Electrical connection
		

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
KNB1540	$3^{\pm0.5}$, $4^{\pm0.5}$, 6^{-1}, 9^{+1}, $15^{\pm2}$, $20^{\pm2}$, $25^{\pm5}$, $30^{\pm5}$, $50^{\pm5}$ mm, other on request	Tinned copper wire
KNB1542	20 to 200 mm	Insulated stranded wire 0.5 mm^2
KNB1543	20 to 200 mm	Insulated solid wire ø 0.8 mm End terminals on request

Standard values KNB1540, KNB1542, KNB1543, 440 V AC, class X1

Capacitance C (µF)	Dimensions				For capacitors with insulated leads on request			
	L_{max} (mm)	H_{max} (mm)	W_{max} (mm)	PCM (mm)	IEC 60384-14 440 V AC	UL 1283 440 V AC	UL 1414 250 V AC	C22.2 No.1 250 V AC
0.0022	18	11	5.5	15	▪	▪	▪	▪
0.0033	18	11	5.5	15	▪	▪	▪	▪
0.0047	18	11	5.5	15	▪	▪	▪	▪
0.0068	18	11	5.5	15	▪	▪	▪	▪
0.01	18	12	6	15	▪	▪	▪	▪
0.015	18	13	7	15	▪	▪	▪	▪
0.022	18	14.5	8.5	15	▪	▪	▪	▪
0.033	18	18.5	9	15	▪	▪	▪	▪
0.047	18	20	12.5	15	▪	▪	▪	▪
0.015	27	15	6.5	22.5	▪	▪	▪	▪
0.022	27	15	6.5	22.5	▪	▪	▪	▪
0.033	27	15	6.5	22.5	▪	▪	▪	▪
0.047	27	16.5	7	22.5	▪	▪	▪	▪
0.068	27	18.5	8.5	22.5	▪	▪	▪	▪
0.1	27	20	10.5	22.5	▪	▪	▪	▪
0.15	27	23	14	22.5	▪	▪	▪	▪
0.22	27	25	16	22.5	▪	▪	▪	▪
0.1	32	19	10	27.5	▪	▪	▪	▪
0.15	32	20	11	27.5	▪	▪	▪	▪
0.22	32	23.5	14	27.5	▪	▪	▪	▪
0.27	32	24.5	15	27.5	▪	▪	▪	▪
0.33	32	28	18	27.5	▪	▪	▪	▪
0.47	32	33	20	27.5	▪	▪	▪	▪
0.68	32	39	24	27.5				

Approvals in use = ▪
Approvals in pending = o