

Capacitors: Type **KNB 1530**
1532
1533

275 V AC

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class X2
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TECHNICAL DATA:

Construction:	polypropylene film, metallized
Rated voltage:	275 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 publ. 68-1
Passive flammability:	according to EN 132 400
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.:

Insulation resistance at 20°C ,
 $U_m = 100 \text{ V D.C.}$, $t = 1 \text{ min}$:

Dielectric loss $\tan\delta$ at $f = 1 \text{ kHz}$
and 20°C :

Soldering:

Soldering time on printed circuit:

Self inductance:

Complies to:

900V/ μ s for PCM=10mm
400V/ μ s for PCM=15mm
200V/ μ s for PCM=22.5mm
160V/ μ s for PCM=27.5mm
100V/ μ s for PCM=37.5mm

$$R_i \geq 15000 \text{ M}\Omega \text{ for } C \leq 0.33 \text{ }\mu\text{F}$$

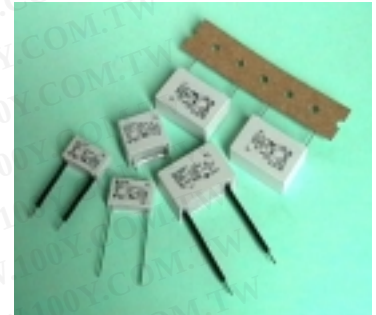
$$R_i \times C_n \geq 5000 \text{ s for } C > 0.33 \text{ }\mu\text{F}$$
 $\leq 5 \times 10^{-4}$

IEC publ. 68-2-20, max 2 s

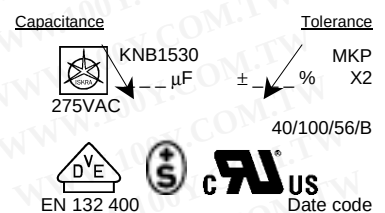
max. 5 s at 270°C

approx. 10 nH/cm of capacitor length
and terminals

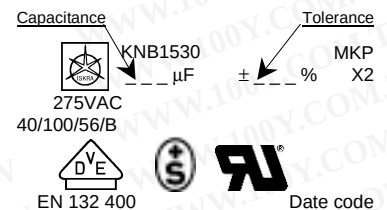
IEC publ. 384-14; EN 132 400,
UL 1283, UL1414, CSA C22.2 No.1



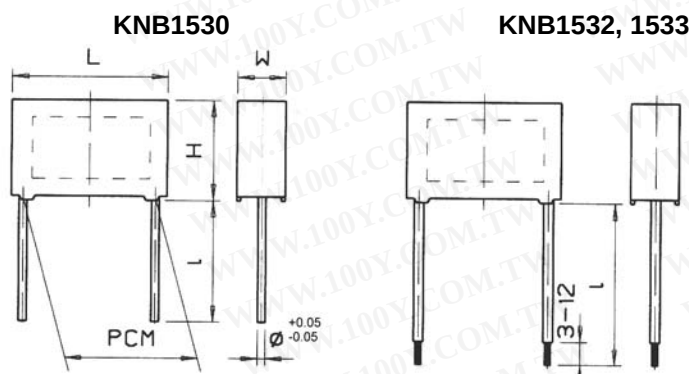
Marking KNB1530 for $C = 0,01\mu F$ to $1\mu F$:



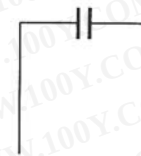
Marking KNB1530 for $C > 1\mu\text{F}$ to $2,2\mu\text{F}$:



Note: Capacitance tolerance $\pm 20\%$ is not marked.



Electrical connection



$\phi 0.6\text{mm}$ for $\text{PCM}=10\text{mm}$
 $\phi 0.8\text{mm}$ for $\text{PCM}>10\text{mm}$

Casing: thermoplastic, sealed with
synthetical resin

Thermoplastic material is self-extinguishing according to UL94, class V-0.

Terminals:

Type	Terminal length	Type of terminals
KNB1530	4±0.5, 6-1, 25±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 φ0.8 mm
		End terminals on request

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

Capacitance C(μF)	Dimensions				 EN 132 400	 EN 132 400	For capacitors with insulated leads on request		
	Lmax (mm)	Hmax (mm)	Wmax (mm)	PCM (mm)			 UL 1283 275V AC	 UL 1414 250V AC	 C22.2 No.1 250V AC
0.01*	13	9.5	4.3	10	•	•	•	•	•
0.01	18	11	5.5	15	•	•	•	•	•
0.015*	13	10.5	5	10	•	•	•	•	•
0.015	18	11	5.5	15	•	•	•	•	•
0.022*	13	11.5	6	10	•	•	•	•	•
0.022	18	11	5.5	15	•	•	•	•	•
0.033	18	11	5.5	15	•	•	•	•	•
0.033*	13	12	6.5	10	•	•	•	•	•
0.047	18	11	5.5	15	•	•	•	•	•
0.047*	13	14.5	7	10	•	•	•	•	•
0.068	18	12	6	15	•	•	•	•	•
0.1*	18	12	6	15	•	•	•	•	•
0.1	18	13	7	15	•	•	•	•	•
0.1	18	14.5	9	15	•	•	•	•	•
0.12	18	13.5	7.5	15	•	•	•	•	•
0.12	18	14.5	8.5	15	•	•	•	•	•
0.15*	18	14.5	9	15	•	•	•	•	•
0.15	18	16.5	8.5	15	•	•	•	•	•
0.15	27	15	6.5	22.5	•	•	•	•	•
0.22*	18	19	10	15	•	•	•	•	•
0.22	27	16.5	7	22.5	•	•	•	•	•
0.22	26.5	16.5	8.5	22.5	•	•	•	•	•
0.27	27	18.5	8.5	22.5	•	•	•	•	•
0.33*	18	20	12.5	15	•	•	•	•	•
0.33	27	18.5	8.5	22.5	•	•	•	•	•
0.47*	26	22	9.5	22.5	•	•	•	•	•
0.47	27	19	10.5	22.5	•	•	•	•	•
0.47	27	20	10.5	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*	31.5	24	13	27.5	•	•	•	•	•
1	31.5	23.5	14	27.5	•	•	•	•	•
1	32	24.5	15	27.5	•	•	•	•	•
1.5	32	28	18	27.5	•	•	•	•	•
1.5	41.5	23	14	37.5	•	•	•	•	•
2.2	32	33	20	27.5	•	•	•	•	•
2.2	41.5	28.5	16	37.5	•	•	•	•	•
2.2	41.5	31	18	37.5	•	•	•	•	•

* mini size

Approvals in use = •

Approvals in pending = o

Note: KNB1532 and KNB1533 with PCM = 10 mm are not available with EN132400 approval.

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