

Capacitors: Type **KNB 1550**
1552
1553

275 V AC

class X1

TECHNICAL DATA:

Construction: polypropylene film, metallized
Rated voltage: 275 V A.C.
Capacitance tolerance: ±20%, ±10% and ±5% on request
Climatic category: 40/100/56 according to IEC publ. 60068-1
Passive flammability: according to EN 132 400
Temperature range: -40°C to +100°C
Test voltage: 3300 V D.C., 1 s
 (All electrical characteristics are checked after the voltage test)



Max. pulse rise time du/dt, at 390 V D.C.:

600V/μs for PCM=15mm
 300V/μs for PCM=22.5mm
 200V/μs for PCM=27.5mm

Insulation resistance at 20°C, U_m=100 V D.C., t = 1 min:

R_i ≥ 15000 MΩ for C ≤ 0.33 μF
 R_i X C_n ≥ 5000 s for C > 0.33 μF

Dielectric loss tan δ at f = 1 kHz and 20°C:

≤ 5X10⁻⁴

Soldering:
Soldering time on printed circuit:

IEC publ. 60068-2-20, max. 2 s

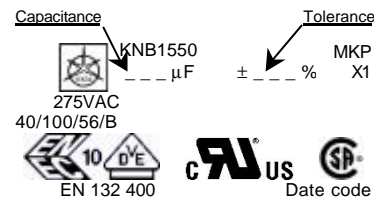
Self inductance:

max. 5 s at 270°C
 approx. 10nH/cm of capacitor length and terminals

Complies to:

IEC publ. 60384-14; EN 132 400
 UL 1283, UL 1414, CSA C22.2. No. 1,

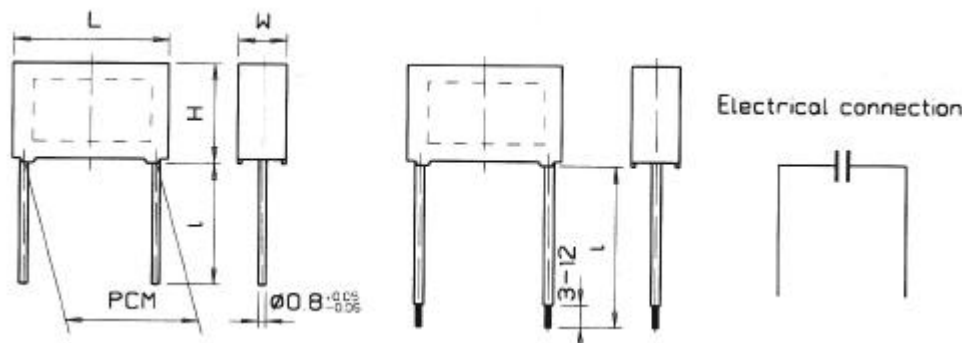
Marking KNB1550:



Note: Capacitance tolerance ±20% is not marked.

KNB1550

KNB1552, 1553

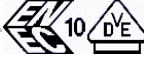





Casing: thermoplastic, sealed with synthetical resin

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

Terminals

Type	Terminal length	Type of terminals
KNB1550	3 ^{+0.5} , 3.5 ^{+0.5} , 4 ^{+0.5} , 6 ⁻¹ , 8 ⁺¹ , 11.5 ^{±0.5} , 18 ^{±2} , 25 ^{±5} , 30 ⁺⁵ , 50 ^{±5} mm, other on request	Tinned copper wire
KNB1552	20 to 200 mm	Insulated stranded wire 0.5 mm ²
KNB1553	20 to 200 mm	Insulated solid wire φ0.8 mm End terminals on request

Standard values: KNB1550, KNB1552, KNB1553					275 V AC	class X1		
Capacitance	Dimensions				For capacitors with insulated leads on request			
								
	L _{max} (mm)	H _{max} (mm)	W _{max} (mm)	PCM (mm)	EN 132 400	UL 1283 275V AC	UL 1414 250V AC	C22.2 No.1 125V AC
0,01	18	11	5	15	•	•	•	•
0,015	18	11	5	15	•	•	•	•
0,022	18	11	5,5	15	•	•	•	•
0,033	18	13	7	15	•	•	•	•
0,047	18	13,5	7,5	15	•	•	•	•
0,068	18	16,5	8,5	15	•	•	•	•
0,068	26,5	15	6	22,5	•	•	•	•
0,1	18	19	10	15	•	•	•	•
0,1	27	16,5	7	22,5	•	•	•	•
0,15	27	18,5	8,5	22,5	•	•	•	•
0,15	32	17	9	27,5	•	•	•	•
0,22	26,5	20,5	11	22,5	•	•	•	•
0,22	31,5	19	10	27,5	•	•	•	•
0,27	27	21	12	22,5	•	•	•	•
0,27	32	20	11	27,5	•	•	•	•
0,33	31,5	21	12	27,5	•	•	•	•
0,47	32	24,5	15	27,5	•	•	•	•
0,68	32	28	18	27,5	•	•	•	•
1	32	33	20	27,5	•	•	•	•
					Approvals in use = -			
					Approvals in pending = o			