

**Capacitors:** Type **KNB 1530** With discharge resistor **275 V AC** class **X2**  
**1532** **300 V AC**  
**1533**

**TECHNICAL DATA:**

**Construction:** -capacitor: polypropylene film, metallized  
 -resistor: metaloxide film

**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 publ. 60068-1

**Passive flammability:** according to EN 132 400

**Temperature range:** -40°C to +100°C

**Test voltage:** 2635 V D.C., 2 s

**Max. pulse rise time du/dt, at 425 V D.C.:**  
 400V/μs for PCM=15mm  
 200V/μs for PCM=22.5mm  
 160V/μs for PCM=27.5mm  
 100V/μs for PCM=37.5mm

**Insulation resistance at 20°C, U<sub>m</sub> = 100V D.C., t = 1min:**  
 R<sub>i</sub> ≥ 15000 MΩ for C ≤ 0.33 μF  
 R<sub>i</sub> x C<sub>n</sub> ≥ 5000 s for C > 0.33 μF

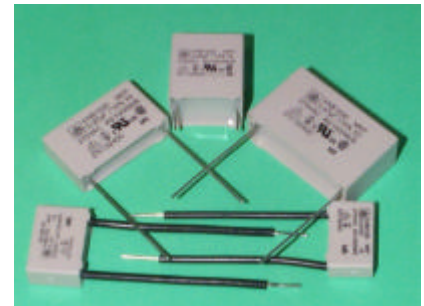
**Dielectric loss tanδ at f = 1 kHz and 20°C:** ≤ 5 x 10<sup>-4</sup>

**Soldering:** IEC publ. 60068-2-20, max 2 s

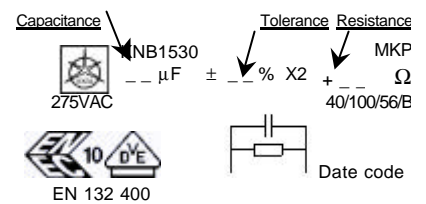
**Soldering time on printed circuit:** max. 5 s at 270°C

**Self inductance:** approx. 10 nH/cm of capacitor length and terminals

**Complies to:** IEC publ. 60384-14/2; EN 132 400



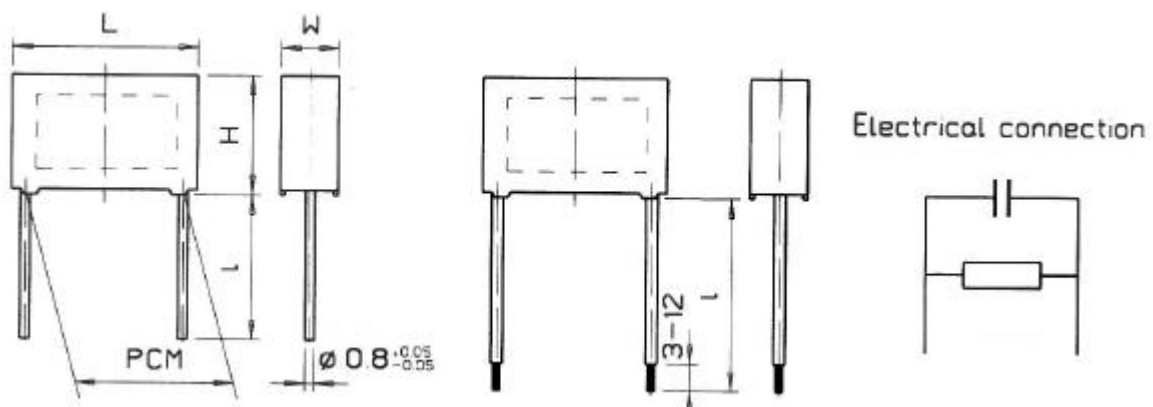
Marking KNB1530 with discharge resistor:



**Note:** Capacitance tolerance ±20% is not marked.

**KNB1530**

**KNB1532, 1533**



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 | 3 <sup>+0.5</sup> , 3.5 <sup>+0.5</sup> , 4 <sup>+0.5</sup> , 6 <sup>-1</sup> , 8 <sup>+1</sup> , 11.5 <sup>+0.5</sup> , 18 <sup>+2</sup> , 25 <sup>+5</sup> , 30 <sup>+5</sup> , 50 <sup>+5</sup> mm, other on request | Tinned copper wire                                       |
| KNB1532 | 20 to 200 mm  | Insulated stranded wire 0.5 mm <sup>2</sup>              |
| KNB1533 | 20 to 200 mm  | Insulated solid wire φ0.8 mm<br>End terminals on request |

Standard values: KNB1530, KNB1532, KNB1533

275 V AC

class **X2**

With discharge resistor

| Capa-<br>citan-<br>ce<br>C(μF) | Resistance<br>R(kΩ) | Dimensions               |                          |                          |             | PCM<br>(mm) | <br>EN 132 400 |
|--------------------------------|---------------------|--------------------------|--------------------------|--------------------------|-------------|-------------|---|
|                                |                     | L <sub>max</sub><br>(mm) | H <sub>max</sub><br>(mm) | W <sub>max</sub><br>(mm) | PCM<br>(mm) |             |   |
| 0,047                          |                     | 18                       | 13                       | 7                        | 15          | •           |   |
| 0,068                          |                     | 18                       | 13                       | 7                        | 15          | •           |   |
| 0,1                            |                     | 18                       | 14,5                     | 9                        | 15          | •           |   |
| 0,15                           | 470                 | 27                       | 16,5                     | 7                        | 22,5        | •           |   |
| 0,22                           | to                  | 26,5                     | 16,5                     | 8,5                      | 22,5        | •           |   |
| 0,22                           | 2700                | 27                       | 18,5                     | 8,5                      | 22,5        | •           |   |
| 0,33                           |                     | 26,5                     | 18,5                     | 10                       | 22,5        | •           |   |
| 0,47                           |                     | 26,5                     | 20,5                     | 11                       | 22,5        | •           |   |
| 0,47                           |                     | 32                       | 20                       | 11                       | 27,5        | •           |   |

Resistance values according to IEC 60063 range E12.


Approvals in use = •

Approvals in pending = o

Standard values: KNB1530, KNB1532, KNB1533

300 V AC

With discharge resistor

| Capa-<br>citan-<br>ce<br>C(μF) | Resistance<br>R(kΩ) | Dimensions               |                          |                          |             | PCM<br>(mm) | <br>EN 132 400 |
|--------------------------------|---------------------|--------------------------|--------------------------|--------------------------|-------------|-------------|---|
|                                |                     | L <sub>max</sub><br>(mm) | H <sub>max</sub><br>(mm) | W <sub>max</sub><br>(mm) | PCM<br>(mm) |             |   |
| 0,047                          |                     | 18                       | 12                       | 6                        | 15          | •           |   |
| 0,068                          |                     | 18                       | 13                       | 7                        | 15          | •           |   |
| 0,1                            |                     | 18                       | 13,5                     | 7,5                      | 15          | •           |   |
| 0,15                           |                     | 18                       | 16,5                     | 8,5                      | 15          | •           |   |
| 0,22                           | 470                 | 18                       | 18,5                     | 9                        | 15          | •           |   |
| 0,33                           | to                  | 18                       | 20                       | 12,5                     | 15          | •           |   |
| 0,15                           | 2700                | 27                       | 15                       | 6,5                      | 22,5        | •           |   |
| 0,22                           |                     | 27                       | 16,5                     | 7                        | 22,5        | •           |   |
| 0,33                           |                     | 27                       | 18,5                     | 8,5                      | 22,5        | •           |   |
| 0,47                           |                     | 27                       | 20                       | 10,5                     | 22,5        | •           |   |
| 0,47                           |                     | 31,5                     | 19                       | 10                       | 27,5        | •           |   |

Resistance values according to IEC 60063 range E12.

Approvals in use = •

Approvals in pending = o