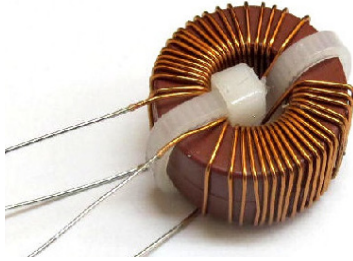


# DTSN-16 NANOPERM POWER INDUCTORS



## APPLICATIONS:

DTSN chokes are based on tape wound cores based on the nanocrystalline softmagnetic material NANOPERM. Compared to chokes made of ferrite cores, the following benefits are achieved:

- very small build volume
- advanced insertion loss
- reduced copper loss,
- higher max. component temp (120°C)

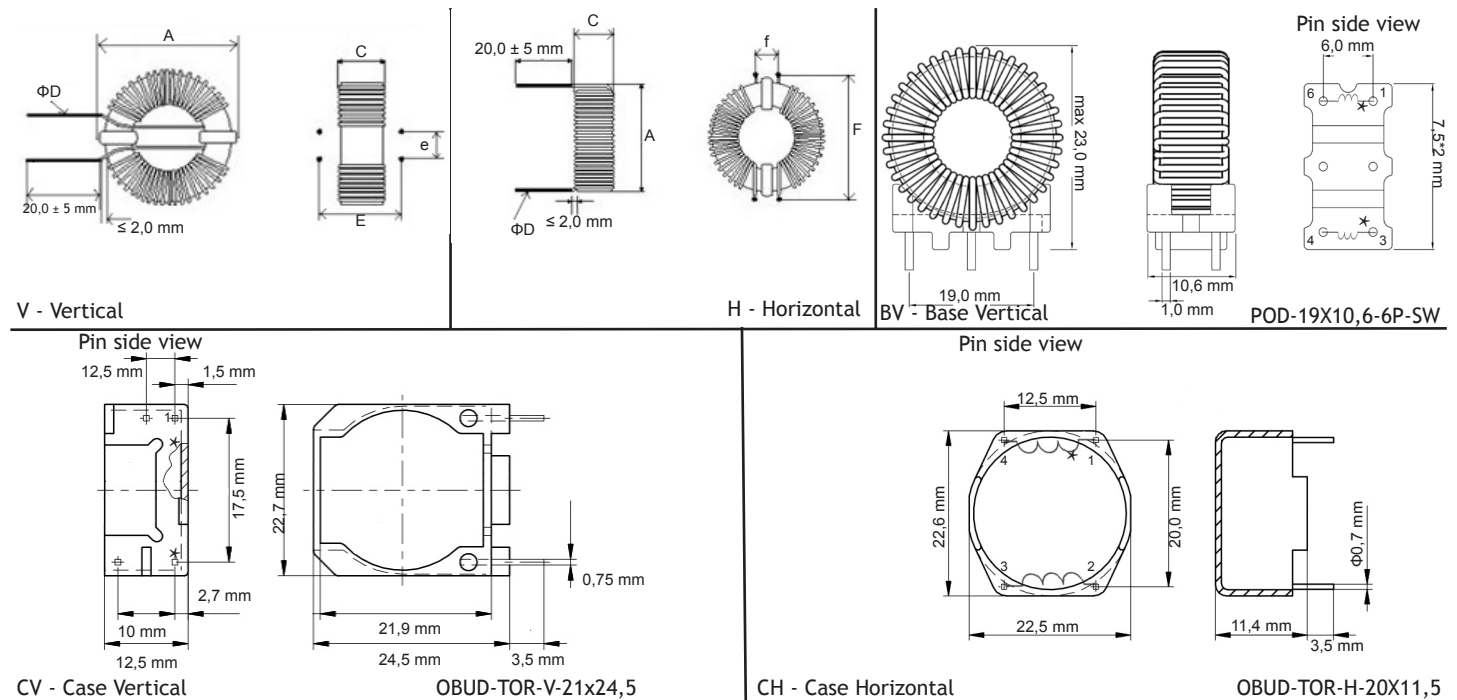
Operating temperature range: -40...+70°C. The plastic materials fulfill UL-94 V0 and are UL listed.

**ORDERING CODE:**

DTSN- 16 / 33 /1,0 - V

mounting: V - vertical, H - horizontal, BV - base vertical,  
CV - case vertical, CH - case horizontal  
rated current in Amps  
inductance in mH@ $I_{DC} = 0A$   
nanoperm core outter diameter  
product symbol

## DIMENSIONS:



| Part number     | Dimensions (± 10%) |           |           |           |           |           |           | Mounting version |   |    |    |    |
|-----------------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|---|----|----|----|
|                 | A<br>[mm]          | C<br>[mm] | D<br>[mm] | E<br>[mm] | e<br>[mm] | F<br>[mm] | f<br>[mm] | V                | H | BV | CV | CH |
| DTSN-16/33/1,0  | 19,0               | 9,5       | 0,35      | 12,0      | 6,0       | 20,0      | 6,0       | ✓                | ✓ | ✓  | ✓  | ✓  |
| DTSN-16/22/1,2  | 19,0               | 10,0      | 0,40      | 12,0      | 6,0       | 20,0      | 6,0       | ✓                | ✓ | ✓  | ✓  | ✓  |
| DTSN-16/15/1,6  | 19,5               | 10,0      | 0,45      | 12,0      | 6,0       | 20,0      | 6,0       | ✓                | ✓ | ✓  | ✓  | ✓  |
| DTSN-16/10/2,2  | 20,0               | 10,5      | 0,53      | 12,0      | 6,0       | 20,0      | 6,0       | ✓                | ✓ | ✓  | ✓  | ✓  |
| DTSN-16/6,8/3,3 | 20,5               | 11,0      | 0,65      | 12,0      | 6,0       | 20,0      | 6,0       | ✓                | ✓ | ✓  | ✓  | ✓  |
| DTSN-16/4,7/5,0 | 21,0               | 11,0      | 0,80      | 12,0      | 6,0       | 20,0      | 6,0       | ✓                | ✓ | —  | —  | —  |
| DTSN-16/3,3/6,3 | 21,0               | 11,5      | 0,90      | 12,0      | 6,0       | 20,0      | 6,0       | ✓                | ✓ | —  | —  | —  |

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## ELECTRICAL PROPERTIES:

| Part number     | Lmax [mH] | I <sub>max</sub> [A] | RDC [Ω] |
|-----------------|-----------|----------------------|---------|
| DTSN-16/33/1,0  | 2x33      | 1,0                  | 0,425   |
| DTSN-16/22/1,2  | 2x22      | 1,2                  | 0,181   |
| DTSN-16/15/1,6  | 2x15      | 1,6                  | 0,099   |
| DTSN-16/10/2,2  | 2x10      | 2,2                  | 0,071   |
| DTSN-16/6,8/3,3 | 2x6,8     | 3,3                  | 0,049   |
| DTSN-16/4,7/5,0 | 2x4,7     | 5,0                  | 0,038   |
| DTSN-16/3,3/6,3 | 2x3,3     | 6,3                  | 0,035   |

## CHARACTERISTICS:

