

Ferrite toroids

TN26/15/20

RING CORES (TOROIDS)

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(I/A)$	core factor (C1)	0.538	mm ⁻¹
V_e	effective volume	6720	mm ³
l_e	effective length	60.1	mm
A_e	effective area	112	mm ²
m	mass of set	≈ 34	g

Coating

The cores are coated with polyamide 11 (PA11), flame retardant in accordance with "UL 94V-2"; UL file number E 45228 (M).

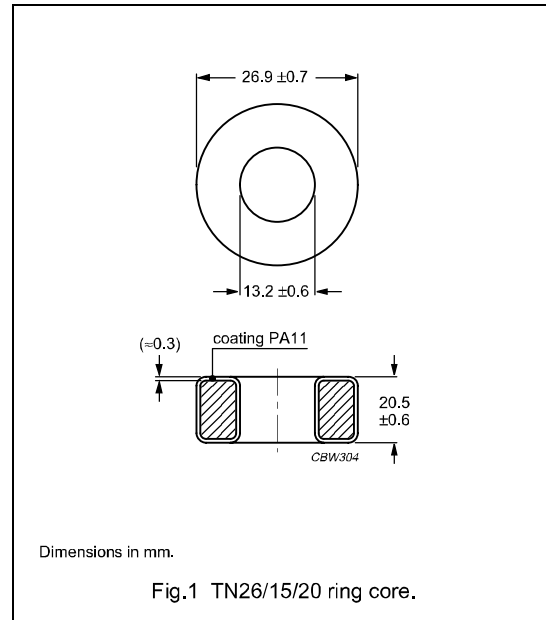
The colour is white.

Maximum operating temperature is 160 °C.

Isolation voltage

DC isolation voltage: 2000 V.

Contacts are applied on the edge of the ring core, which is also the critical point for the winding operation.



Ring core data

GRADE	A_L (nH)	μ_i	TYPE NUMBER
3C90 <small>des</small>	5400 ± 25%	≈ 2300	TN26/15/20-3C90
3C11	10000 ± 25%	≈ 4300	TN26/15/20-3C11
3E25	12800 ± 25%	≈ 5500	TN26/15/20-3E25

Properties of cores under power conditions

GRADE	B (mT) at	CORE LOSS (W) at	
	H = 250 A/m; f = 25 kHz; T = 100 °C	f = 25 kHz; B̂ = 200 mT; T = 100 °C	f = 100 kHz; B̂ = 100 mT; T = 100 °C
3C90	≥ 320	≤ 0.75	≤ 0.75