

Ferrite ring cores (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

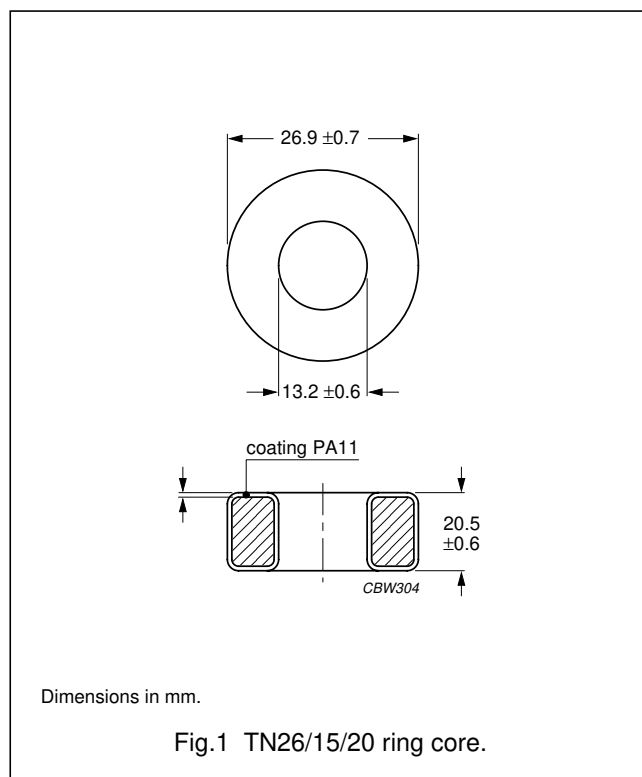
Coating

The cores are coated with polyamide 11 (PA11), flame retardant in accordance with "UL 94V-2".

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	COLOUR CODE	TYPE NUMBER
3C85 ^{sup}	4700 ±25%	≈2000	red	TN26/15/20-3C85
3C11 ^{sup}	10000 ±25%	≈4300	white	TN26/15/20-3C11
3E25	12800 ±25%	≈5500	orange	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; \hat{B} = 200 mT; T = 100 °C	f = 100 kHz; \hat{B} = 100 mT; T = 100 °C	f = 400 kHz; \hat{B} = 50 mT; T = 100 °C
3C85	≥320	≤1.1	≤1.2	–