

Ferrite toroids

TN32/19/13

RING CORES (TOROIDS)

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
$S(I/A)$	core factor (C1)	0.99	mm^{-1}
V_e	effective volume	5820	mm^3
l_e	effective length	76	mm
A_e	effective area	76.5	mm^2
m	mass of core	~ 29	g

Coating

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

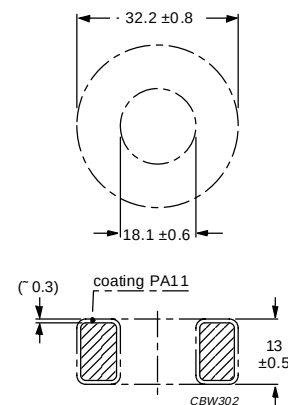
The colour is white.

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.



Dimensions in mm.

Fig.1 TN32/19/13 ring core.

Ring core data

GRADE	A_L (nH)	μ_i	TYPE NUMBER
4A11	885 ± 25%	~ 700 ⁽¹⁾	TN32/19/13-4A11
3F3	2270 ± 25%	~ 1800	TN32/19/13-3F3
3C90	2910 ± 25%	~ 2300	TN32/19/13-3C90
3C11	5450 ± 25%	~ 4300	TN32/19/13-3C11
3E25	6950 ± 25%	~ 5500	TN32/19/13-3E25

1. Old permeability specification maintained.

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; B = 200 mT; T = 100 °C	f = 100 kHz; B = 100 mT; T = 100 °C	f = 400 kHz; B = 50 mT; T = 100 °C
3C90	=320	= 0.65	= 0.65	-
3F3	=320	-	= 0.64	= 1.1