

Ferrite toroids

TX42/26/13

RING CORES (TOROIDS)

Effective core parameters

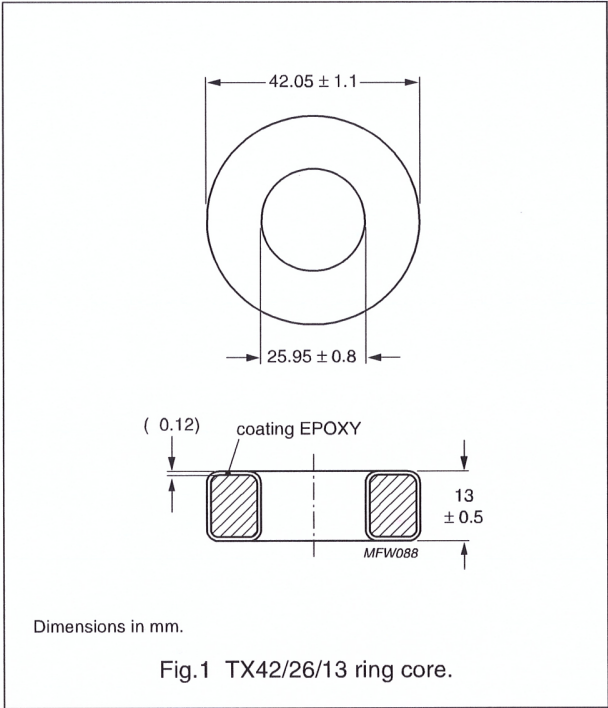
SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	1.076	mm ⁻¹
V_e	effective volume	9860	mm ³
l_e	effective length	103	mm
A_e	effective area	95.8	mm ²
m	mass of core	≈ 53	g

Coating *an* *now 0.06 ok 530 mm²*
TD 2/4

The cores are coated with epoxy, flame retardant in accordance with "UL 94V-0"; UL file number E 228348. The colour is white. Maximum operating temperature is 200 °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	2690 ± 25%	≈ 2300	TX42/26/13-3C90
3C11	5000 ± 25%	≈ 4300	TX42/26/13-3C11
3E25	6425 ± 25%	≈ 5500	TX42/26/13-3E25
3E27	6425 ± 25%	≈ 5500	TX42/26/13-3E27
4A11	820 ± 25%	≈ 700 ⁽¹⁾	TX42/26/13-4A11

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
3C90	≥ 320	≤ 1.1	≤ 1.1