

# DATA SHEET

**TC5.8/3.1/3.2**  
Ferrite toroids

Supersedes data of February 2002

2004 Sep 01

## Ferrite toroids

TC5.8/3.1/3.2

## RING CORES (TOROIDS)

## Effective core parameters

| SYMBOL        | PARAMETER        | VALUE          | UNIT             |
|---------------|------------------|----------------|------------------|
| $\Sigma(l/A)$ | core factor (C1) | 3.04           | $\text{mm}^{-1}$ |
| $V_e$         | effective volume | 55.8           | $\text{mm}^3$    |
| $l_e$         | effective length | 13.0           | mm               |
| $A_e$         | effective area   | 4.28           | $\text{mm}^2$    |
| m             | mass of core     | $\approx 0.31$ | g                |

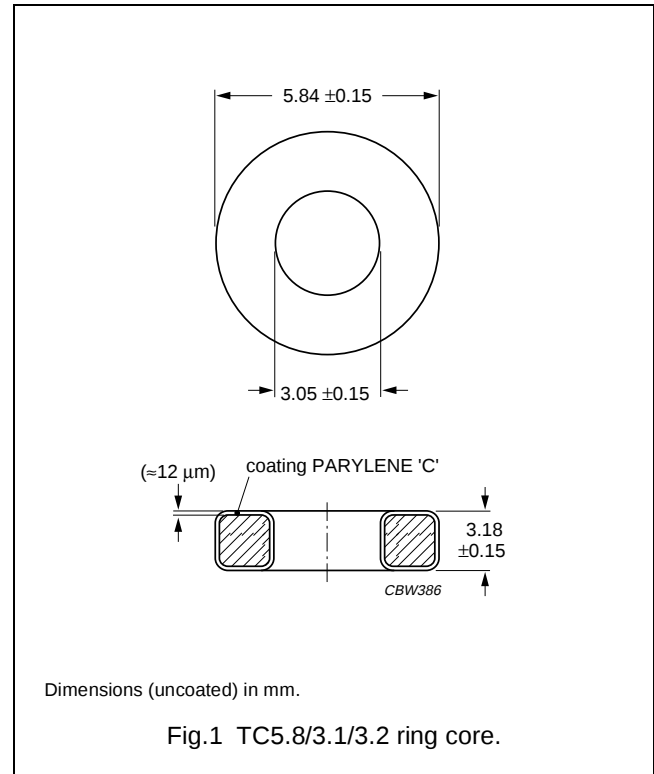
## Coating

The cores are coated with parylene C, flame retardant in accordance with "UL 94V-2"; UL file number E 194397. The coating is transparent.

## Isolation voltage

Dc isolation voltage: 1000 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                                                                                | $A_L$<br>(nH)   | $\mu_i$         | TYPE NUMBER                      |
|--------------------------------------------------------------------------------------|-----------------|-----------------|----------------------------------|
| 3D3 <span style="background-color: black; color: white; padding: 0 2px;">des</span>  | $310 \pm 20\%$  | $\approx 750$   | TC5.8/3.1/3.2-3D3                |
| 3B7 <span style="background-color: black; color: white; padding: 0 2px;">sup</span>  | $940 \pm 25\%$  | $\approx 2300$  | TC5.8/3.1/3.2-3B7 <sup>(1)</sup> |
| 3E28 <span style="background-color: black; color: white; padding: 0 2px;">des</span> | $1650 \pm 25\%$ | $\approx 4000$  | TC5.8/3.1/3.2-3E28               |
| 3E6 <span style="background-color: black; color: white; padding: 0 2px;">des</span>  | $4130 \pm 30\%$ | $\approx 10000$ | TC5.8/3.1/3.2-3E6                |

## Note

1. Dimensions with coating.

## Ferrite toroids

TC5.8/3.1/3.2

## DATA SHEET STATUS DEFINITIONS

| DATA SHEET STATUS         | PRODUCT STATUS | DEFINITIONS                                                                                                                                                                              |
|---------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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## PRODUCT STATUS DEFINITIONS

| STATUS    | INDICATION                                                                          | DEFINITION                                                                                                                                                                     |
|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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