## DATA SHEET

## TX58/41/18 Ferrite toroids

## RING CORES (TOROIDS)

## Effective core parameters

| SYMBOL | PARAMETER | VALUE | UNIT |
| :--- | :--- | :--- | :--- |
| $\Sigma(\mathrm{I} / \mathrm{A})$ | core factor (C1) | 1.0 | $\mathrm{~mm}^{-1}$ |
| $\mathrm{~V}_{\mathrm{e}}$ | effective volume | 23200 | $\mathrm{~mm}^{3}$ |
| $\mathrm{I}_{\mathrm{e}}$ | effective length | 152 | mm |
| $\mathrm{~A}_{\mathrm{e}}$ | effective area | 152 | $\mathrm{~mm}^{2}$ |
| m | mass of core | $\approx 110$ | g |

## Coating

The cores are coated with epoxy, flame retardant in accordance with "UL 94V-0"; UL file number E 235873.
The colour is white.
Maximum operating temperature is $200^{\circ} \mathrm{C}$.

## 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 TX58/41/18 ring core.

Ring core data

| GRADE | $\mathbf{A}_{\mathbf{L}}$ <br> $(\mathbf{n H})$ | $\mu_{\mathbf{i}}$ | TYPE NUMBER |
| :--- | :---: | :---: | :--- |
| $3 C 90$ des | $2890 \pm 25 \%$ | $\approx 2300$ | TX58/41/18-3C90 |
| 3 C 11 | $5400 \pm 25 \%$ | $\approx 4300$ | TX58/41/18-3C11 |
| 3 E 25 | $6900 \pm 25 \%$ | $\approx 5500$ | TX58/41/18-3E25 |

## Properties of cores under power conditions

| GRADE | $B(\mathrm{mT})$ at | CORE LOSS (W) at |  |
| :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \mathrm{H}=250 \mathrm{~A} / \mathrm{m} ; \\ \mathrm{f}=25 \mathrm{kHz} ; \\ \mathrm{T}=100^{\circ} \mathrm{C} \end{gathered}$ | $\begin{aligned} \mathrm{f} & =25 \mathrm{kHz} \\ \hat{\mathrm{~B}} & =200 \mathrm{mT} ; \\ \mathrm{T} & =100^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{f}=100 \mathrm{kHz} ; \\ & \hat{\mathrm{B}}=100 \mathrm{mT} ; \\ & \mathrm{T}=100^{\circ} \mathrm{C} \end{aligned}$ |
| 3C90 | $\geq 320$ | $\leq 2.6$ | $\leq 2.6$ |

## DATA SHEET STATUS DEFINITIONS

| DATA SHEET <br> STATUS | PRODUCT <br> STATUS | DEFINITIONS |
| :--- | :--- | :--- |
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