

# DATA SHEET

**U100/57/25**

U, I cores and accessories

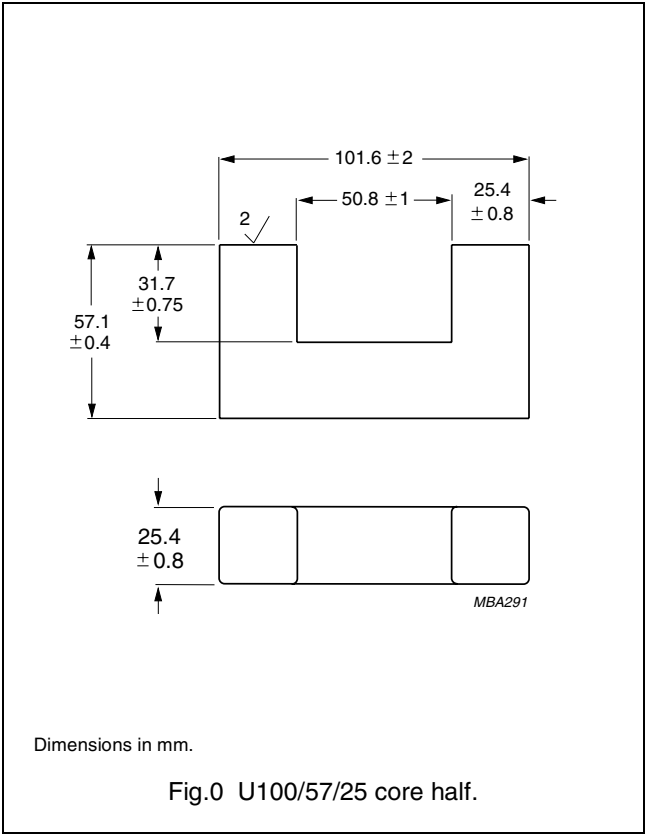
Supersedes data of September 2004

2008 Sep 01

U CORES

Effective core parameters

| SYMBOL        | PARAMETER         | VALUE         | UNIT             |
|---------------|-------------------|---------------|------------------|
| $\Sigma(l/A)$ | core factor (C1)  | 0.478         | $\text{mm}^{-1}$ |
| $V_e$         | effective volume  | 199 000       | $\text{mm}^3$    |
| $l_e$         | effective length  | 308           | mm               |
| $A_e$         | effective area    | 645           | $\text{mm}^2$    |
| m             | mass of core half | $\approx 500$ | g                |



Core halves

$A_L$  measured on a combination of 2 U cores.

| GRADE | $A_L$<br>(nH)   | $\mu_e$        | TYPE NUMBER     |
|-------|-----------------|----------------|-----------------|
| 3C90  | $5500 \pm 25\%$ | $\approx 2200$ | U100/57/25-3C90 |
| 3C94  | $5500 \pm 25\%$ | $\approx 2200$ | U100/57/25-3C94 |

Properties of core sets under power conditions

| GRADE | B (mT) at                                 | CORE LOSS (W) at                                 |                                                   |
|-------|-------------------------------------------|--------------------------------------------------|---------------------------------------------------|
|       | H = 250 A/m;<br>f = 25 kHz;<br>T = 100 °C | f = 25 kHz;<br>$\hat{B}$ = 200 mT;<br>T = 100 °C | f = 100 kHz;<br>$\hat{B}$ = 100 mT;<br>T = 100 °C |
| 3C90  | $\geq 320$                                | $\leq 26$                                        | $\leq 32$                                         |
| 3C94  | $\geq 320$                                | —                                                | $\leq 26$                                         |

## U, I cores and accessories

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## DATA SHEET STATUS DEFINITIONS

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

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