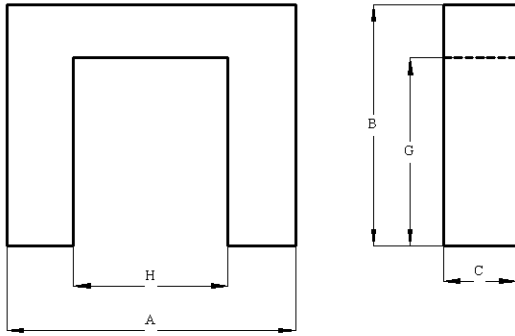
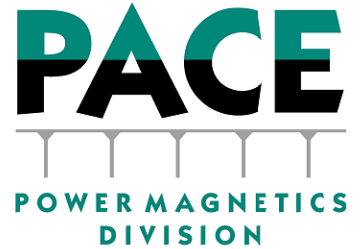


# U100 & U93



## Ferrite U Cores U100 115 and U9330

Data sheet Ref: APS-1 05/11/10



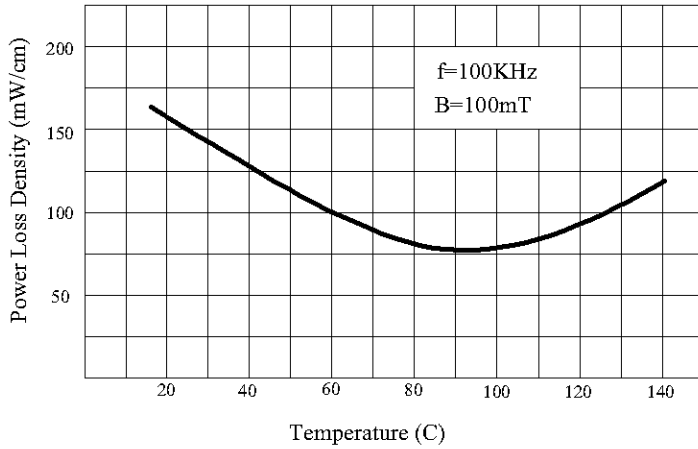
### U100 115

|     | A     | B    | C    | G    | H  |
|-----|-------|------|------|------|----|
| Max | 103.6 | 57.5 | 25.9 | 32.1 | -  |
| Min | 99.6  | 56.7 | 24.5 | 31.3 | 49 |

### U9330

|     | A    | B    | C    | G    | H    |
|-----|------|------|------|------|------|
| Max | 94.8 | 76.5 | 30.6 | 48.9 | 37.4 |
| Min | 91.2 | 75.5 | 29.4 | 47.1 | 35.0 |

### Power Loss Vs Temperature



### Magnetic Data (for a Pair of U100 115 Cores)

| Parameter                       | Symbol | Value                 |
|---------------------------------|--------|-----------------------|
| Effective magnetic path length  | $L_e$  | 300mm                 |
| Effective area of magnetic path | $A_e$  | 620mm <sup>2</sup>    |
| Effective magnetic volume       | $V_e$  | 186000mm <sup>3</sup> |
| $\sum L \cdot I_a$              | CL     | 0.48mm <sup>-1</sup>  |

### Magnetic Data (for a Pair of U93 Cores)

| Parameter                       | Symbol | Value                |
|---------------------------------|--------|----------------------|
| Effective magnetic path length  | $L_e$  | 185.8mm              |
| Effective area of magnetic path | $A_e$  | 228.8mm <sup>2</sup> |
| Effective magnetic volume       | $V_e$  | 42450mm <sup>3</sup> |
| $\sum L \cdot I_a$              | CL     | 0.81mm <sup>-1</sup> |



### Standard Characteristics of Material

| Material /Core | $\mu_{iac}$      | Tan $\delta/\mu_{iac}$<br>(x10 <sup>-5</sup> )<br>10KHz | TC<br>(°C) | f<br>(MHz) | $\rho$<br>( $\Omega \cdot cm$ ) | Bms<br>mT<br>(25°C) | Hcms<br>Am | Pc (100KHz)<br>@100mT<br>(Kw/m3) |       | Pc (100KHz)<br>@200mT<br>(Kw/m3) |       |
|----------------|------------------|---|------------|------------|---------------------------------|---------------------|------------|----------------------------------|-------|----------------------------------|-------|
|                |                  |   |            |            |                                 |                     |            | 25°C                             | 100°C | 25°C                             | 100°C |
| CF138<br>U100  | 4700+30%<br>-20% | <2.5  | 220        | <0.3       | 100                             | 480                 | 15         | <155                             | <80   | <800                             | <500  |
| CF138<br>U93   | 5000+30%<br>-20% | <2.5  | 220        | <0.3       | 100                             | 480                 | 15         | <155                             | <80   | <800                             | <500  |

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