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F-23-WC

Features

MnZn ferrite material for common mode chokes, power transformers, power inductors, broadband transformers, noise filter and etc.

Electrical Specifications

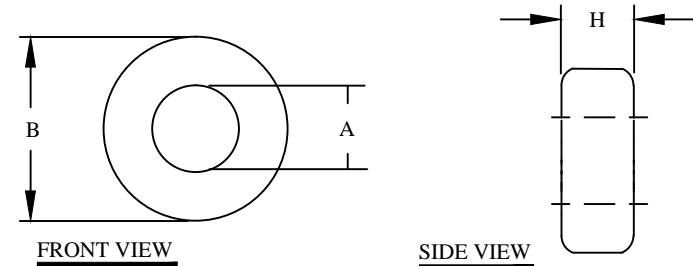
| Item | Unit/Symbol | Condition | Value | Tol. |
|-------------------------|---------------------|---------------------------------|---------|-------|
| A_L | mH/1000 | @ 5 gauss in a de-gaussed state | 1960 | ± 30% |
| L_e | cm | N/A | 1.3 | ± 10% |
| A_e | cm ² | N/A | 0.021 | ± 10% |
| V_e | cm ³ | N/A | 0.027 | ± 10% |
| Density | g/cm ³ | N/A | 4.8 | Typ. |
| Permeability | μ_0 | Typical | 10000 | ± 30% |
| Coercivity | Oe, A/m | Typical | 0.04, 3 | Typ. |
| Flux Density | Gauss, B | Typical | 4300 | Typ. |
| | Gauss, H | @ 1194 A/m, 15 oe mT | 430 | Typ. |
| Curie temperature | °C | T_c | > 125 | Typ. |
| Resistivity | Ω cm, ρ | Typical | 0.15 | Typ. |
| Relative Loss Factor | 10^{-6} | $\tan\delta / \mu$ | < 7 | Typ. |
| | kHz | @ Frequency | 10 | Typ. |
| Max. Usable freq. | MHz | 50% roll-off | < 0.25 | Typ. |
| Remanence | G, mT | Typical | 800, 80 | Typ. |
| Disaccommodation Factor | 10^{-6} | Typical | < 3 | Typ. |

Power Loss (P_L), Sine Wave, in mW/cm³ (typical)

| Condition | | @ 25 °C | | @ 60 °C | | @ 100 °C | @ 120 °C |
|-----------|---------|---------|--------|---------|--------|----------|----------|
| I | 25 kHz | N/A | 200 mT | N/A | 2000 G | N/A | N/A |
| II | 100 kHz | N/A | 100 mT | N/A | 1000 G | N/A | N/A |
| III | 500 kHz | N/A | 50 mT | N/A | 500 G | N/A | N/A |
| IV | 700 kHz | N/A | 50 mT | N/A | 500 G | N/A | N/A |

REVISION HISTORY

| REV | ECN | DESCRIPTION | SIGN & DATE | | | |
|-----|-----|--------------------|-------------|---------|-----|---------|
| | | | BY | DATE | AP. | DATE |
| A | | Production release | EO | 2/13/13 | JL | 2/13/13 |



Case Dimensional Tolerances

| | in | tol. | mm | tol. |
|--------------------|--------|-----------|------|----------|
| B (Outer Diameter) | 0.230 | 0.244 Max | 5.84 | 6.20 Max |
| A (Inner Diameter) | 0.120 | 0.106 Min | 3.05 | 2.69 Min |
| H (Height) | 0.060 | 0.079 Max | 1.52 | 1.78 Max |
| Weight | 0.14 g | | | |

For additional detail, specifications and charts see:

<http://www.bytemark.com/>

| CODE IDENT | MFG. P/N | DESCRIPTION | ITEM NO. |
|-------------------|------------|--|---|
| PARTS LIST | | | |
| AUTOCAD | X | www.coilws.com www.cwsbytemark.com | CWSBYTEMARK 353 West Grove Ave. Orange, CA. 92865 |
| SOLIDWORKS | | | |
| DRAWN | EO 2/13/13 | TITLE: Ferrite Toroid Core MnZn Material W, Parylene Coated | |
| CHECKED | JL 2/13/13 | | |
| ENGR. | JL 2/13/13 | | |
| APPR. | JL 2/13/13 | SIZE DWG. NO. | REV |
| | | B F-23-WC | A |
| | | SCALE N/A | SHEET 1 OF 1 |

UNLESS OTHERWISE SPECIFIED
 DIMENSIONING AND TOLERANCE PER ANSI Y14.5M
 ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS].
 TOLERANCE INCHES:
 .XXX=±.005 .XX=±.015 \angle =±0°30'
 TOLERANCE METRICS:
 .XXX=±.127 .XX=±.38 \angle =±0°30'
 ANGLE PROJECTION \angle
 DO NOT SCALE DRAWING