F-50A-68

REVISION HISTORY REV ECN DESCRIPTION SIGN & DATE BY DATE AP. DATE A Production release EO 1/31/13 JL 1/31/13

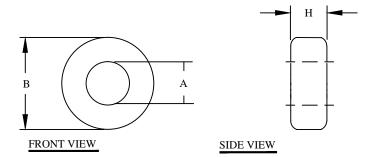
Features

NiZn ferrite material with a range up to 100 MHz used for broadband transformers, antennas and HF high Q inductor applications.

Burnished to break sharp edges, can contain Parylene C coat at smaller diameters from the length of 9.5mm (.375") or a uniform coating of thermo-set plastic at larger dimensions (if part numbers ends with a C).

| Electrical Specifications | | | | | | | | |
|---|----------------------------------|-------------------------------|-----------------|-------|--|--|--|--|
| Item | Unit/Symbol | Condition | Value | Tol. | | | | |
| A_L | nH/N ² | H/N ² Typ. | | Тур. | | | | |
| Le | cm | N/A | 3.12 | ± 10% | | | | |
| Ae | cm ² | cm ² N/A | | ± 10% | | | | |
| Ve | cm ³ | N/A | 0.47 | ± 10% | | | | |
| Initial Permeability | μ_0 | @ B < 10 gauss | 20 | Тур. | | | | |
| Temp. Coeff. Of initial Permeability | %, °C | 20 - 70 °C | 0.10 | Тур. | | | | |
| Coercive Force | H _c | oersted | 7.0 | Тур. | | | | |
| Residual Flux Density | Gauss, Br | N/A | 1000 | Тур. | | | | |
| Flux Density | Gauss, B | Initial (B), oersted | 2700 | Тур. | | | | |
| | Gauss, H | @ Field Strength (H), oersted | 40 | Тур. | | | | |
| Curie temperature | °C | Tc | > 500 | Nom. | | | | |
| Resistivity | Ω cm, ρ | @ Field Strength | 10 ⁷ | Тур. | | | | |
| Loss Factor | 10^{-6} , tan δ / μ | Initial | 500 | Тур. | | | | |
| | MHz | @ Frequency | 100 | Тур. | | | | |

| Dimensional Tolerances | | | | | | | | |
|------------------------|-------|---------|-------|--------|--|--|--|--|
| | in | tol. | mm | tol. | | | | |
| Case | | | | | | | | |
| B (Outer Diameter) | 0.500 | ± 0.010 | 12.70 | ± 0.25 | | | | |
| A (Inner Diameter) | 0.311 | ± 0.008 | 7.90 | ± 0.20 | | | | |
| H (Height) | 0.250 | ± 0.010 | 6.35 | ± 0.25 | | | | |
| Weight 2.40 g | | | | | | | | |



For additional detail, specifications and charts see:

http://www.bytemark.com/products/ferrite_matl.htm

| | | CODE IDENT | - MFG | 5. P/N | DADTO LICT | | ITEM NO. | |
|--|------------|---------------|---------------------|----------------|-------------|--------------------------|-------------|-------|
| | PARTS LIST | | | | | | | |
| | AUTOCAD X | | | | CWSBYTEMARK | | | |
| | SOLIDY | VORKS | | www.coilws.com | | 353 West Grove Ave Orang | | |
| UNLESS OTHERWISE SPECIFIED | SIGN DATE | | www.cwsbytemark.com | | 92865 | | 1150, 011. | |
| DIMENSIONING AND TOLERANCE PER ANSI Y14.5M | DRAWN | EO | 1/31/13 | TITLE: | rrita Tarai | d Coro | | |
| ALL DIMENSIONS ARE IN INCHES AND [MILIMETERS]. | CHECKED | JL | 1/31/13 | 1.6 | | d Core Material | | |
| TOLERANCE INCHES: .XXX=±.005 .XX=±.015 < √=±0°30° TOLERANCE METRICS: | ENGR. | JL | 1/31/13 | 68, NiZn | | | | 557 |
| .XXX=±.127 .XX=±.38 《=±0°30° ANGLE PROJECTION | APPR. | JL | 1/31/13 | SIZE DWG. NO. | F-5 | 0A-68 | | A REV |
| DO NOT SCALE DRAWING | | | | SCALE | N/A | | SHEET 1 O | F 1 |

EP FORMO005 REV 3 10/01 CAD-FILE: