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## Features

MnZn ferrite material with range up to 100 kHz for wide range of high and low flux density inductive designs.

Measurements are for 1piece (a half). Kits contain 1 bobbin for center connection, and 2 core halves (2 pieces).

### Electrical Specifications

| Item                                 | Unit/Symbol                 | Condition                     | Value           | Tol.  |
|--------------------------------------|-----------------------------|-------------------------------|-----------------|-------|
| A <sub>L</sub>                       | nH/N <sup>2</sup>           | @ 10 KHz                      | 3175            | Min.  |
| L <sub>e</sub>                       | cm                          | N/A                           | 9.8             | ± 10% |
| A <sub>e</sub>                       | cm <sup>2</sup>             | N/A                           | 1.84            | ± 10% |
| V <sub>e</sub>                       | cm <sup>3</sup>             | N/A                           | 18.100          | ± 10% |
| Initial Permeability                 | μ <sub>0</sub>              | @ B < 10 gauss                | 2000            | Nom.  |
| Temp. Coeff. Of initial Permeability | %, °C                       | 20 - 70 °C                    | 0.7             | Typ.  |
| Coercive Force                       | H <sub>c</sub>              | oersted                       | 0.30            | Typ.  |
| Residual Flux Density                | Gauss, B <sub>r</sub>       | N/A                           | 1800            | Typ.  |
| Flux Density                         | Gauss, B                    | Initial (B), oersted          | 4900            | Typ.  |
|                                      | Gauss, H                    | @ Field Strength (H), oersted | 5               | Typ.  |
| Curie temperature                    | °C                          | T <sub>c</sub>                | > 200           | Nom.  |
| Resistivity                          | Ω cm, ρ                     | @ Field Strength              | 10 <sup>2</sup> | Typ.  |
| Loss Factor                          | 10 <sup>-6</sup> , tanδ / μ | Initial                       | 15              | Typ.  |
|                                      | MHz                         | @ Frequency                   | 0.1             | Typ.  |

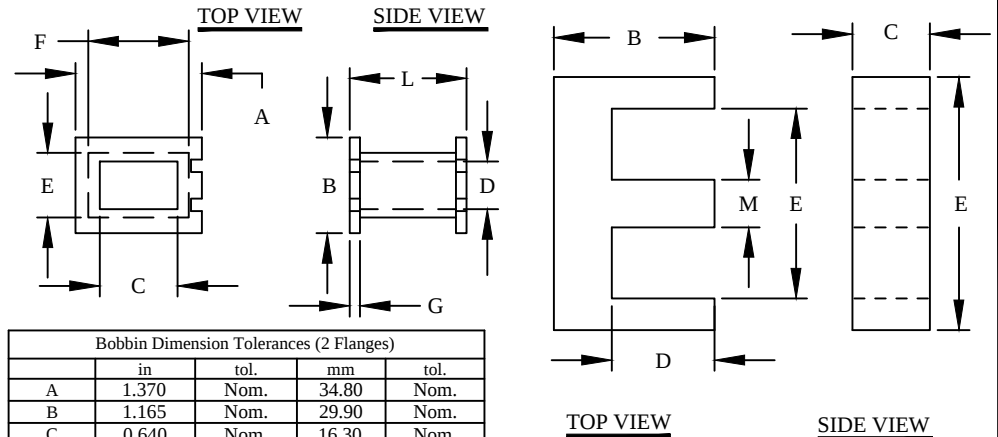
### Dimensions

|        | A, LH<br>(Length) | B, W<br>(Width) | C, HT<br>(Height) | D       | E     | M       |
|--------|-------------------|-----------------|-------------------|---------|-------|---------|
| In     | 1.687             | 0.828           | 0.609             | 0.593   | 1.197 | 0.468   |
| Tol.   | ± 0.029           | - 0.009         | - 0.029           | ± 0.009 | Min.  | ± 0.009 |
| mm     | 42.85             | 21.15           | 15.85             | 14.95   | 30.40 | 11.90   |
| Tol.   | ± 0.75            | - 0.25          | - 0.75            | ± 0.25  | Min.  | ± 0.25  |
| Weight | 48.00 g           |                 |                   |         |       |         |

E-625-77

### REVISION HISTORY

| REV | ECN | DESCRIPTION        | SIGN & DATE |         |     |         |
|-----|-----|--------------------|-------------|---------|-----|---------|
|     |     |                    | BY          | DATE    | AP. | DATE    |
| A   |     | Production release | EO          | 11/9/13 | JL  | 11/9/13 |
|     |     |                    |             |         |     |         |



For additional detail, specifications and charts see:

[http://www.bytemark.com/products/ferrite\\_matl.htm](http://www.bytemark.com/products/ferrite_matl.htm)

|            |  |            |  |                                        |  |                                                         |  |
|------------|--|------------|--|----------------------------------------|--|---------------------------------------------------------|--|
| CODE IDENT |  | MFG. P/N   |  | DESCRIPTION                            |  | ITEM NO.                                                |  |
| PARTS LIST |  |            |  |                                        |  |                                                         |  |
| AUTOCAD    |  | X          |  | www.coilws.com<br>www.cwsbytemark.com  |  | CWSBYTEMARK<br>353 West Grove Ave. Orange, CA.<br>92865 |  |
| SOLIDWORKS |  |            |  |                                        |  |                                                         |  |
| SIGN       |  | DATE       |  | TITLE:<br><br>E Core Material 77, MnZn |  |                                                         |  |
| DRAWN      |  | EO 11/9/13 |  |                                        |  |                                                         |  |
| CHECKED    |  | JL 11/9/13 |  |                                        |  |                                                         |  |
| ENGR.      |  | JL 11/9/13 |  |                                        |  |                                                         |  |
| APPR.      |  | JL 11/9/13 |  |                                        |  |                                                         |  |
|            |  |            |  | SIZE DWG. NO.                          |  | REV                                                     |  |
|            |  | B          |  | E-625-77                               |  | A                                                       |  |
|            |  | SCALE      |  | N/A                                    |  | SHEET 1 OF 1                                            |  |