

# USHA AMORPHOUS METALS LTD, INDIA (TOROIDAL- CORE DESIGN)

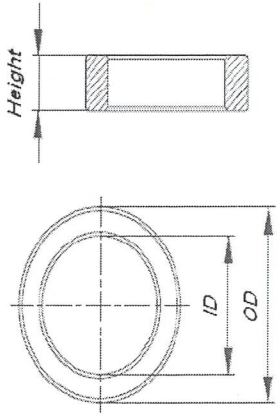
Enquiry No. : E/D/19/442

Dated : 21/05/19

Rev. : 00 Dated : 21-05-19

**MATERIAL :** Vitroperm 800

**DIMENSIONS :**



**UMNT**

- WHERE
- UM : Uami Magnetics
  - N : Nano Crystalline
  - T : Toroidal
  - X : Material Grade
  - AAA : Outer Dimension without casing
  - BB : Inner Dimension without casing
  - CC : Height Dimension without Casing

**XAAABBCC**

Dimensions: mm  
 Scale: Not To Scale  
 Projection: Third Angle

**PHYSICAL SPECIFICATION :**

|                                     |                       |              |
|-------------------------------------|-----------------------|--------------|
| Outer Diameter (Bare)               | (OD <sub>B</sub> ) mm | 25.60        |
| Inner Diameter (Bare)               | (ID <sub>B</sub> ) mm | 19.10        |
| Height (Bare)                       | (HT <sub>B</sub> ) mm | 10.00        |
| Outer Diameter (with Reinforcement) | (OD <sub>R</sub> ) mm | 28.10 (Max.) |
| Inner Diameter (with Reinforcement) | (ID <sub>R</sub> ) mm | 16.60 (Min.) |
| Height (with Reinforcement)         | (HT <sub>R</sub> ) mm | 12.30 (Max.) |
| Core Weight (Bare)                  | (grams)               | 13.4 ± 3.0 % |
| Core Weight (with Reinforcement)    | (grams)               | 14.4 ± 3.0 % |

**MAGNETIC CHARACTERISTICS :**

|                        |                      |      |
|------------------------|----------------------|------|
| Mean Magnetic Path     | (lm) cm              | 7.02 |
| Net Cross Section Area | (Ac) cm <sup>2</sup> | 0.26 |
| Window Area            | (Wa) cm <sup>2</sup> | 2.87 |
| Area Product           | (Ap) cm <sup>4</sup> | 0.74 |

**ELECTRICAL SPECIFICATION :**

AL Value : 37.23 μH (±30%) @ 10kHz  
 AL Value : 9.31 μH (±30%) @ 100kHz



**Special Instruction :**

**NOTE :**  
 A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE  
 B. CONTINUOUS OPERATING TEMPERATURE 130 °C

Reinforcement : Plastic Box (Nylon 66 30% Glass Filled)

Core Size : **UMNT- V0261910**

**Verification :**

Prepared By :   
 Checked By :   
 Feasibility Check and Approved By : \_\_\_\_\_

**Customer Approval :**

Company : \_\_\_\_\_  
 Approver Name : \_\_\_\_\_  
 Signature : \_\_\_\_\_ Date : \_\_\_\_\_

| NO. | REV NO. | DATE     | ECN NO. | REVISIONS DETAILS                        | Checked | Approval |
|-----|---------|----------|---------|--|---------|----------|
| 01  | 00      | 21-05-19 |         | Permeability Changed from 60000 to 80000 |         |          |
|     |         |          |         |  |         |          |
|     |         |          |         |  |         |          |
|     |         |          |         |  |         |          |

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