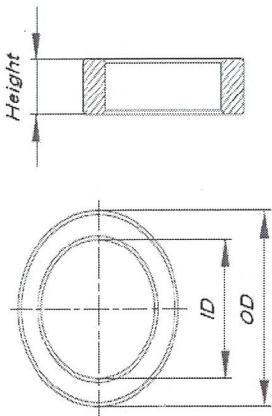


# USHA AMORPHOUS METALS LTD, INDIA (TOROIDAL-CORE DESIGN)

Enquiry No.: E/D/19/426  
 Dated: 21/05/19  
 Rev.: 00 Dated: 21-05-19

**MATERIAL:** Fe Based Nanocrystalline Metal

**DIMENSIONS:**



**UMNT XAAABBCC**

- WHERE  
 UM : Uam1 Magnetics  
 N : Nano Crystalline  
 T : Toroidal  
 X : Material Grade  
 AAA : Outer Dimension without casing  
 BB : Inner Dimension without casing  
 CC : Height Dimension without Casing

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

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

**PHYSICAL SPECIFICATION:**

Outer Diameter (Bare)	(OD <sub>B</sub> ) mm	25.00
Inner Diameter (Bare)	(ID <sub>B</sub> ) mm	20.00
Height (Bare)	(HT <sub>B</sub> ) mm	15.00
Outer Diameter (with Reinforcement)	(OD <sub>R</sub> ) mm	27.60 (Max.)
Inner Diameter (with Reinforcement)	(ID <sub>R</sub> ) mm	17.40 (Min.)
Height (with Reinforcement)	(HT <sub>R</sub> ) mm	17.40 (Max.)
Core Weight (Bare)	(grams)	15.4 ± 3.0 %
Core Weight (with Reinforcement)	(grams)	16.5 ± 3.0 %

**MAGNETIC CHARACTERISTICS:**

Mean Magnetic Path	(lm) cm	7.07
Net Cross Section Area	(Ac) cm <sup>2</sup>	0.30
Window Area	(Wa) cm <sup>2</sup>	3.14
Area Product	(Ap) cm <sup>4</sup>	0.94

**ELECTRICAL SPECIFICATION:**

**AL Value:** 16.00  $\mu\text{H}$  ( $\pm 30\%$ ) @ 10kHz  
**AL Value:** 3.20  $\mu\text{H}$  ( $\pm 30\%$ ) @ 100kHz

**Special Instruction:**

Reinforcement : Plastic Box (Nylon 66 30% Glass Filled)  
**Core Size:** UMNT- A0252015

**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 25000 to 30000		

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