

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

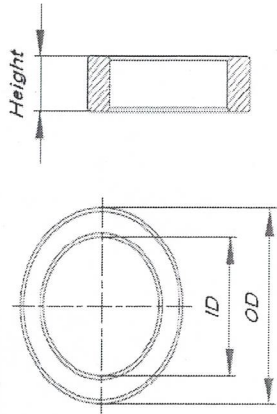
Enquiry No.: E/D/19/430

Dated : 21/05/19

Rev.: 00 Dated: 21-05-19

MATERIAL: Fe Based Nanocrystalline Metal

DIMENSIONS:



UMNT

WHERE

- UM : Uam I 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
- Protection:** Third Angle

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

PHYSICAL SPECIFICATION:

Outer Diameter (Bare)	(OD _B) mm	50.00
Inner Diameter (Bare)	(ID _B) mm	40.00
Height (Bare)	(HT _B) mm	20.00
Outer Diameter (with Reinforcement)	(OD _R) mm	53.40 (Max.)
Inner Diameter (with Reinforcement)	(ID _R) mm	36.60 (Min.)
Height (with Reinforcement)	(HT _R) mm	23.70 (Max.)
Core Weight (Bare)	(grams)	82.0 ± 3.0 %
Core Weight (with Reinforcement)	(grams)	87.8 ± 3.0 %

MAGNETIC CHARACTERISTICS:

Mean Magnetic Path	(lm) cm	14.14
Net Cross Section Area	(Ac) cm ²	0.80
Window Area	(Wa) cm ²	12.57
Area Product	(Ap) cm ⁴	10.05

ELECTRICAL SPECIFICATION:

- AL Value:** 21.33 μH ($\pm 30\%$) @ 10kHz
- AL Value:** 4.27 μH ($\pm 30\%$) @ 100kHz

Special Instruction:

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

Core Size: UMNT- A0504020

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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