

# AITIOU

## A12F-1

⊙ Amorphous Toroidal Core(Used Mag-Amp)

⊙ Mechanical Properties

Bare Core Dimensions (mm)			Finished Core Dimensions (mm)			Case Material & Color
O.D <sub>MAX</sub>	I.D <sub>MIN</sub>	H.T <sub>±0.2</sub>	O.D <sub>±0.3</sub>	I.D <sub>±0.3</sub>	H.T <sub>±0.3</sub>	
12.3	8.5	4.5	14.4	6.7	6.9	PBT or NYLON,Black

⊙ Typical Parameters and Magnetic Properties

Lm (mm)	Ac (mm <sup>2</sup> )	Wa (mm <sup>2</sup> )	WaAc (mm <sup>4</sup> )	Vol (mm <sup>3</sup> )	100KHz, 80A/m RT	
					$\phi_c$ ( $\mu$ Wb)	Br/Bm(%)
32.66	6.84	35.24	241.03	279.21	15.05	90 MIN

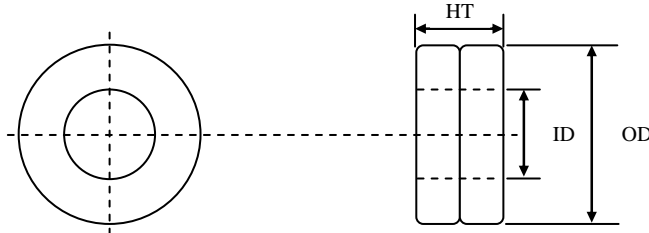
⊙ Core Finished Material:

Insulating Covers:UL94V-0 or equivalent

⊙ Temperature Range:

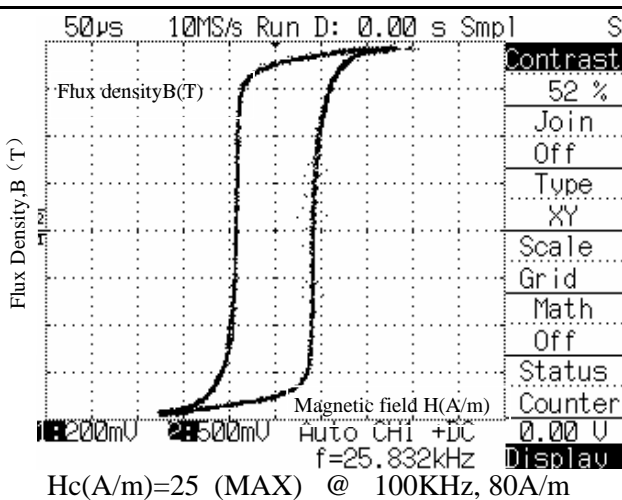
Storage temperature-20 ~ +50 °C Ambient Temperature

Operating Temperature -40 ~ +120 °C Case Surface Temperature



WIRE	0.8 $\phi$	TURNS	0.5 Ts	TEMP.	25 °C
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Hysteresis loops of core materials



Magnetic Induction (Gauss) VS. Core Loss

