

# AITIOU

## AIC-1807(C-01)

◎ Amorphous Toroidal Core

◎ 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>	
16.6	13.3	4.5	19.2	10.7	7.0	PBT or NYLON, White VS. Gray

◎ 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	
					ψc(μ Wb)	Br/Bm(%)
46.94	5.940	89.87	533.855	348.55	13.068	90 MIN

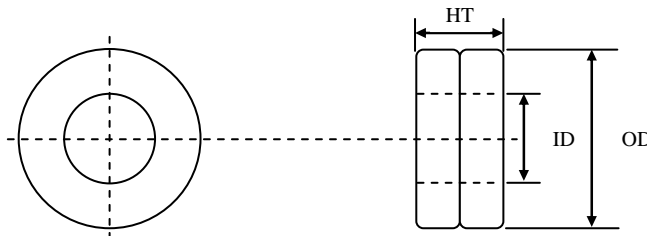
◎ Core Finished Material:

Insulating Covers: UL94V-0 or equivalent

◎ Temperature Range:

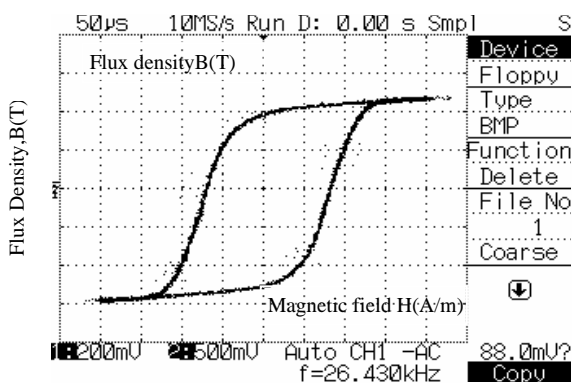
Storage temperature -20 ~ +50°C Ambient Temperature

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



WIRE	0.8φ	TURNS	0.5 Ts	TEMP.	25°C
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Hysteresis loops of core materials



Hc(A/m)=25 (MAX) @ 100KHz, 80A/m

Magnetic Induction (Gauss) VS. Core Loss

