

SPECIFICATION		PAGE	1/3
PART NUMBER :	TDS102125	REV.	A

**SPECIFICATION**

**PART NO: TDS102125**

【Approval Stamp Column 】

Customer :



**STODA Technologies(Shantou)LTD**  
Tel : 0754-89918282  
Website: [www.stodatech.com](http://www.stodatech.com)  
Email: [sales@stodatech.com](mailto:sales@stodatech.com)  
Address: Huanshi east road, Chen nan street , Chaoyang , Shan tou, Guang dong P.R.C

SPECIFICATION		PAGE	2/3
---------------	--	------	-----

PART NUMBER :	TDS102125	REV.	A
---------------	-----------	------	---

1: PHYSICAL DIMENSION

BEFORE COATING

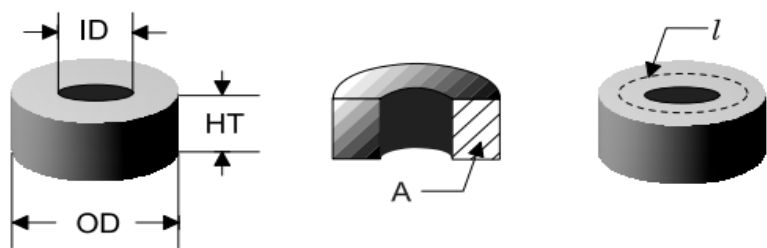
OUTSIDE DIAMETER	(OD)	:	10.16	mm	MAX
INSIDE DIAMETER	(ID)	:	5.08	mm	MIN
HEIGHT	(HT)	:	3.96	mm	MAX

AFTER COATING :

OUTSIDE DIAMETER	(OD)	:	10.80	mm	MAX
INSIDE DIAMETER	(ID)	:	4.57	mm	MIN
HEIGHT	(HT)	:	4.57	mm	MAX

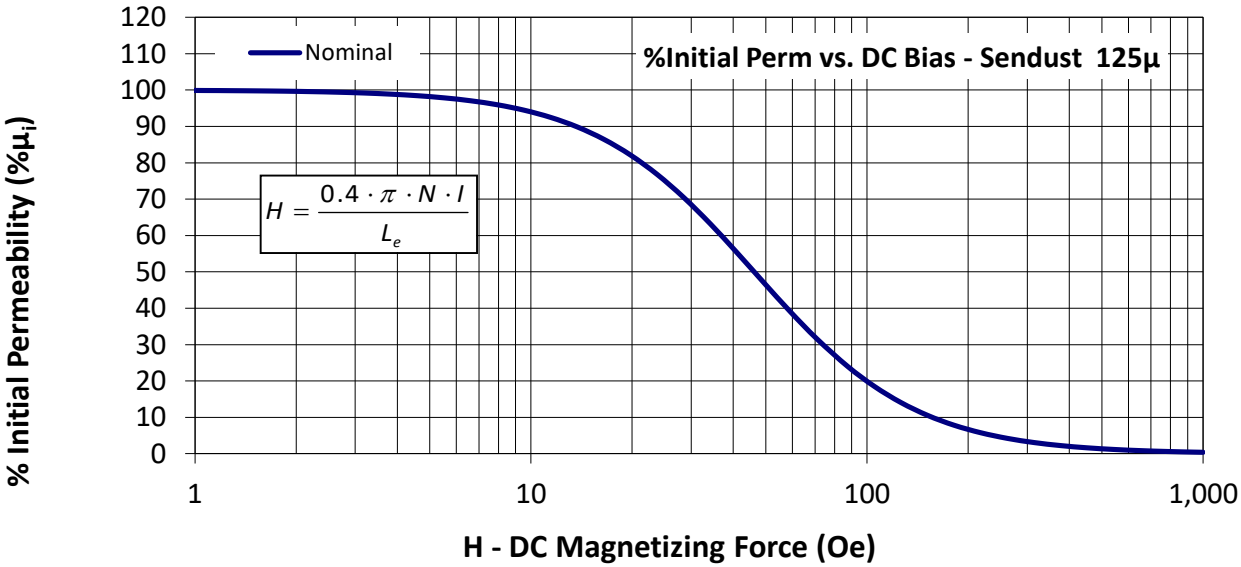
2: CORE MAGNETIC PARAMETERS

EFFECTIVE MAGNETIC PATH LENGTH	(L <sub>e</sub> )	:	2.38	cm
EFFECTIVE CROSS SEPCION AREA	(A <sub>e</sub> )	:	0.100	cm <sup>2</sup>
EFFECTIVE VOLUME	(V <sub>e</sub> )	:	0.238	cm <sup>3</sup>



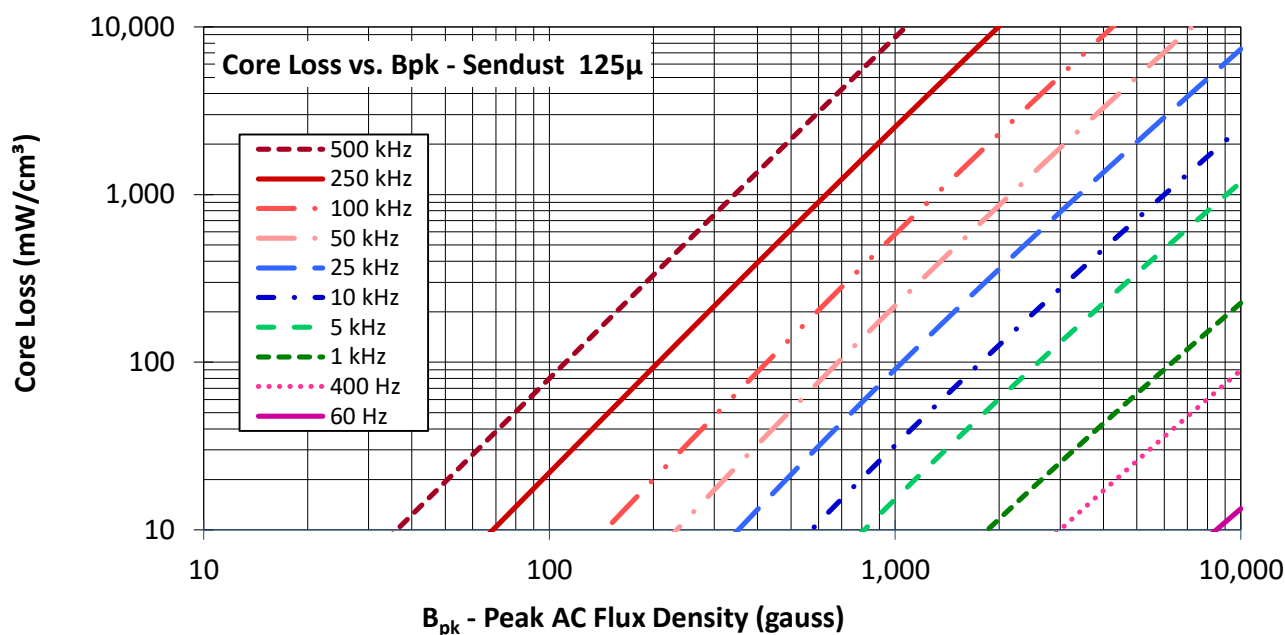
3: DC BIASED INDUCTANCE

H <sub>DC</sub>	:	40	Oe
PERCENT INITIAL PERM(NOM)	:	56.41%	
PERCENT INITIAL PERM(MIN. )	:	50.20%	



SPECIFICATION		PAGE	3/3
PART NUMBER :	TDS102125	REV.	A
4: CORE LOSS			

$B_{pk}$  : 1000 G  
 FREQUENCY : 50 kHz  
 CORE LOSS (NOMINAL) : 229 mW/cm<sup>3</sup>  
 CORE LOSS (MAXIMUM) : 250 mW/cm<sup>3</sup>



#### 5: INDUCTANCE

$\mu_i$  (REFERENCE) : 125  
 AL VALUE (NOMINAL) : 66 nH/N<sup>2</sup>  
 TEST WINDING : N=55, #30 AWG  
 FREQUENCY : 10 kHz  
 VOLTAGE ON TH2829A : 0.024 V  
 AL TOLERANCE :  $\pm 12\%$   
 TEST INSTRUMENT : TH2829A

#### 6: COATING/PACKAGE

COATING TYPE : Black Epoxy  
 VOLTAGE BREAKDOWN (MIN.) : 1000 Vrms  
 LIMIT : 0.1 mA, 5 s  
 PACKAGE QUANTITY : 9,000 Pcs/Box

REVISION HISTORY			PREPARED	CHECKED	APPROVED
REV.	DESCRIPTION	DATE			
A	FIRST ISSUE	2022/4/2	