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PART NUMBER :	TDS102090	REV.	A

**SPECIFICATION**

**PART NO:           TDS102090**

【Approval Stamp Column 】

Customer :



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1:    PHYSICAL DIMENSION

BEFORE COATING

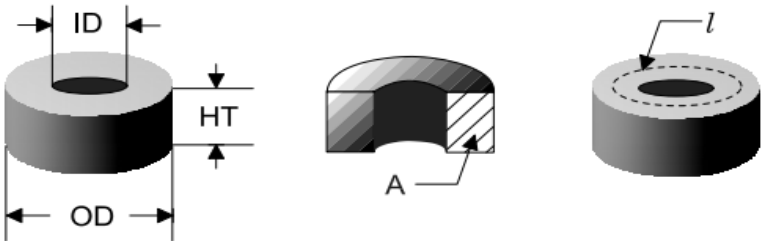
OUTSIDE DIAMETER	(OD)	:	10.16	mm	MAX
INSIDE DIAMETER	(ID)	:	5.08	mm	MIN
HEIGHT	(HT)	:	3.96	mm	MAX

AFTER COATING :

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

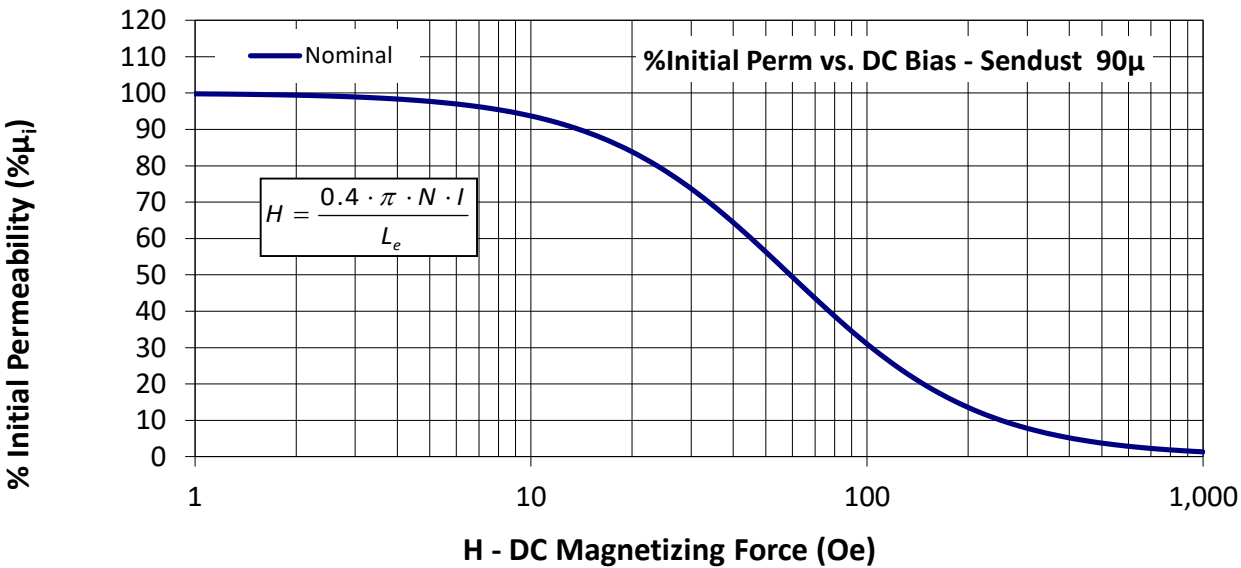
2:    CORE MAGNETIC PARAMETERS

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>



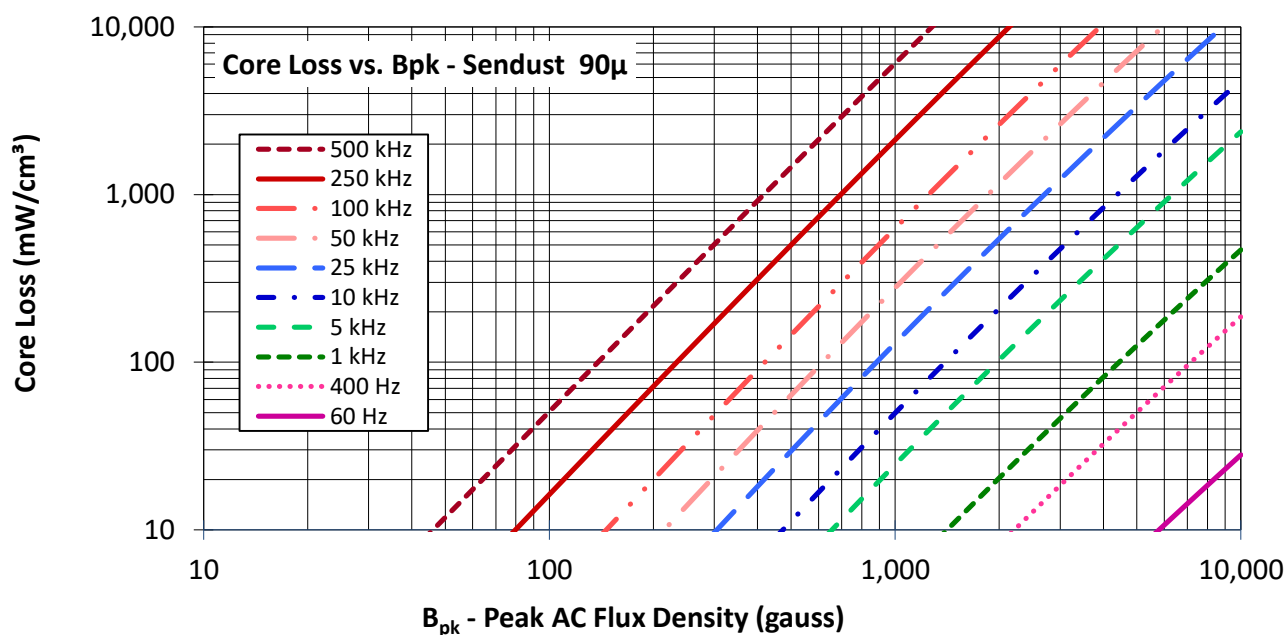
3:    DC BIASED INDUCTANCE

H <sub>DC</sub>	:	50	Oe
PERCENT INITIAL PERM(NOM)	:	49.41%	
PERCENT INITIAL PERM(MIN. )	:	44.10%	



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4:    CORE LOSS			

$B_{pk}$  : 1000 G  
 FREQUENCY : 50 kHz  
 CORE LOSS (NOMINAL) : 320 mW/cm<sup>3</sup>  
 CORE LOSS (MAXIMUM) : 320 mW/cm<sup>3</sup>



#### 5: INDUCTANCE

$\mu_i$  (REFERENCE) : 90  
 AL VALUE (NOMINAL) : 48 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	