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PART NUMBER :	TDS102160	REV.	A

SPECIFICATION

PART NO: TDS102160

【Approval Stamp Column 】

Customer :



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1: PHYSICAL DIMENSION

BEFORE COATING

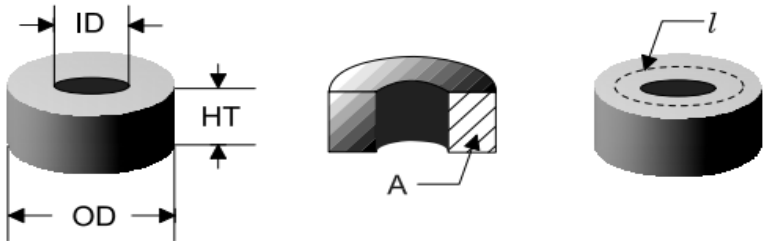
OUTSIDE DIAMETER	(OD)	:	10.16	mm	MAX
INSIDE DIAMETER	(ID)	:	5.08	mm	MIN
HEIGHT	(HT)	:	3.96	mm	MAX

AFTER COATING :

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

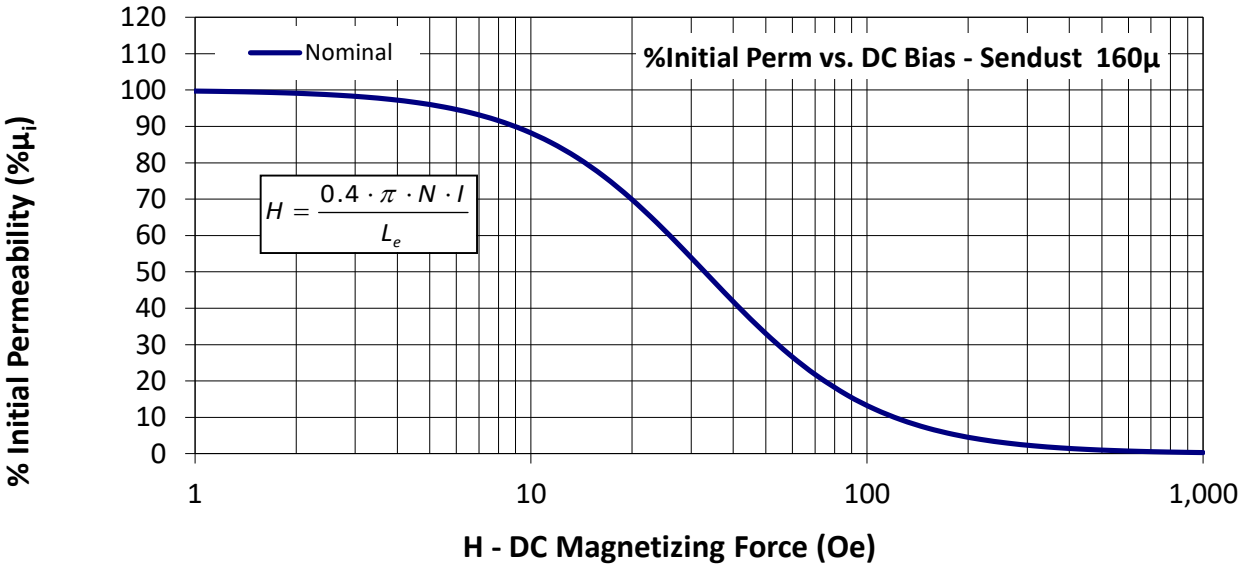
2: CORE MAGNETIC PARAMETERS

EFFECTIVE MAGNETIC PATH LENGTH	(L _e) :	2.38	cm
EFFECTIVE CROSS SEPCION AREA	(A _e) :	0.100	cm ²
EFFECTIVE VOLUME	(V _e) :	0.238	cm ³



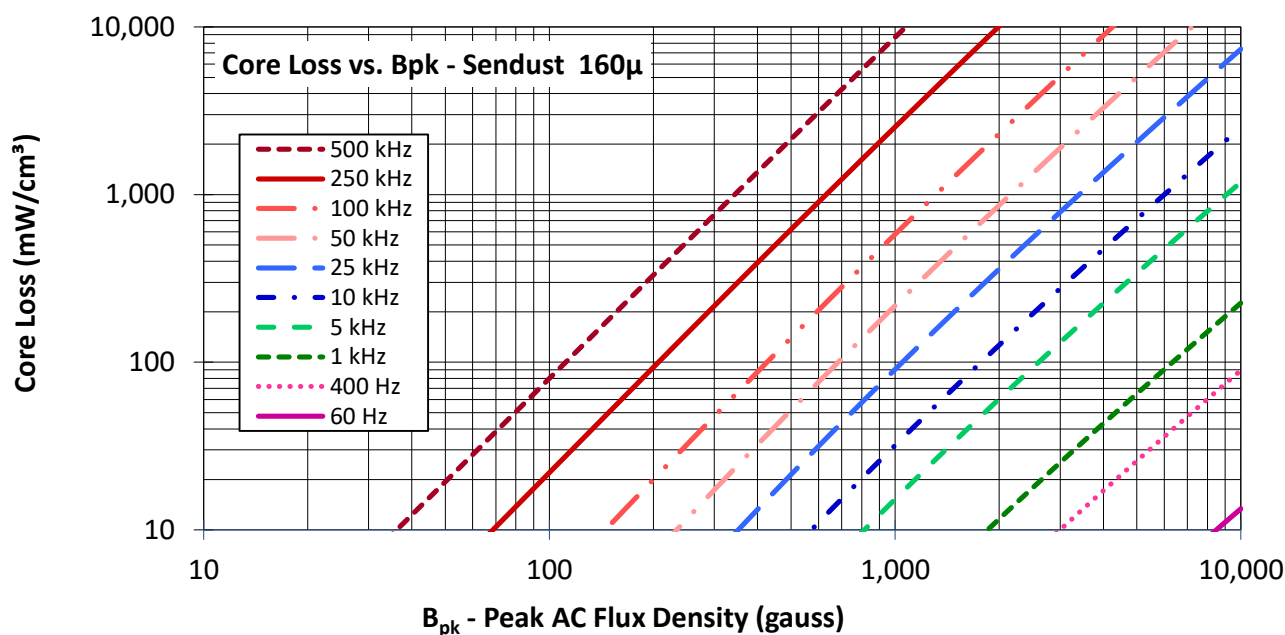
3: DC BIASED INDUCTANCE

H _{DC}	:	40	Oe
PERCENT INITIAL PERM(NOM)	:	41.81%	
PERCENT INITIAL PERM(MIN.)	:	36.20%	



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4: CORE LOSS			

B_{pk} : 1000 G
 FREQUENCY : 50 kHz
 CORE LOSS (NOMINAL) : 229 mW/cm³
 CORE LOSS (MAXIMUM) : 250 mW/cm³



5: INDUCTANCE

μ_i (REFERENCE) : 160
 AL VALUE (NOMINAL) : 84 nH/N²
 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	