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| PART NUMBER : | TDS112090 | REV. | A |

SPECIFICATION

PART NO: TDS112090

【Approval Stamp Column 】

Customer :



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

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1: PHYSICAL DIMENSION

BEFORE COATING

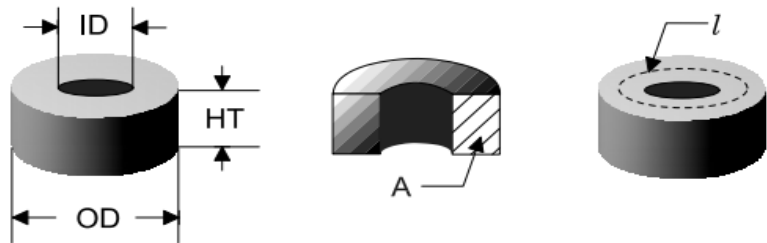
| | | | | | |
|------------------|------|---|-------|----|-----|
| OUTSIDE DIAMETER | (OD) | : | 11.18 | mm | MAX |
| INSIDE DIAMETER | (ID) | : | 6.35 | mm | MIN |
| HEIGHT | (HT) | : | 3.96 | mm | MAX |

AFTER COATING :

| | | | | | |
|------------------|------|---|-------|----|-----|
| OUTSIDE DIAMETER | (OD) | : | 11.89 | mm | MAX |
| INSIDE DIAMETER | (ID) | : | 5.89 | mm | MIN |
| HEIGHT | (HT) | : | 4.72 | mm | MAX |

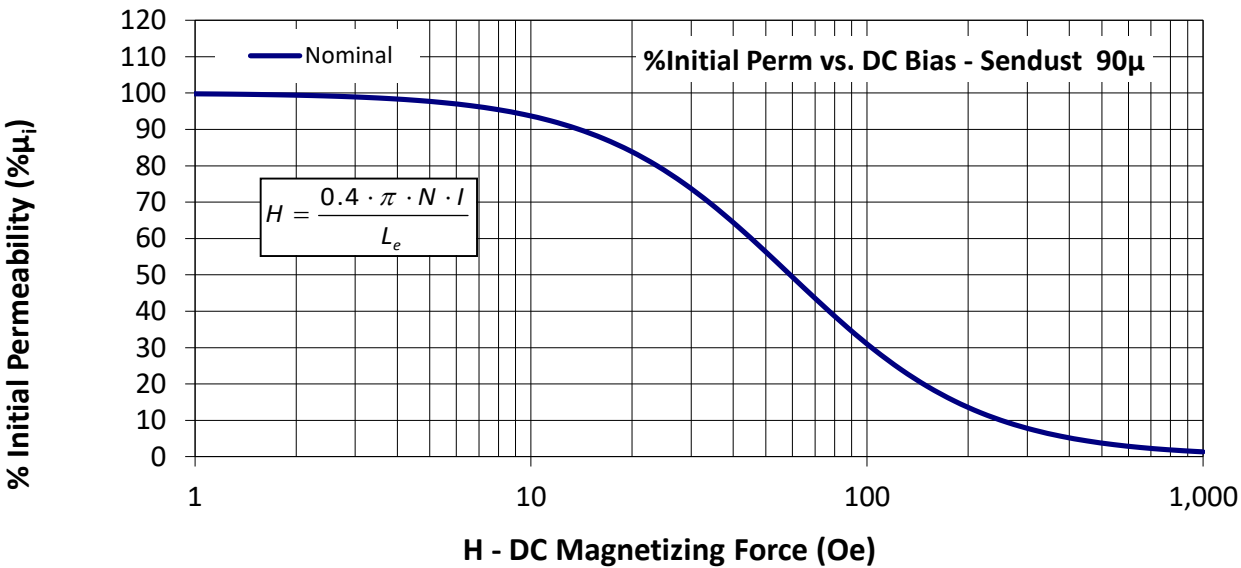
2: CORE MAGNETIC PARAMETERS

| | | | | |
|--------------------------------|-------------------|---|--------|-----------------|
| EFFECTIVE MAGNETIC PATH LENGTH | (L _e) | : | 2.69 | cm |
| EFFECTIVE CROSS SEPCION AREA | (A _e) | : | 0.0906 | cm ² |
| EFFECTIVE VOLUME | (V _e) | : | 0.244 | cm ³ |



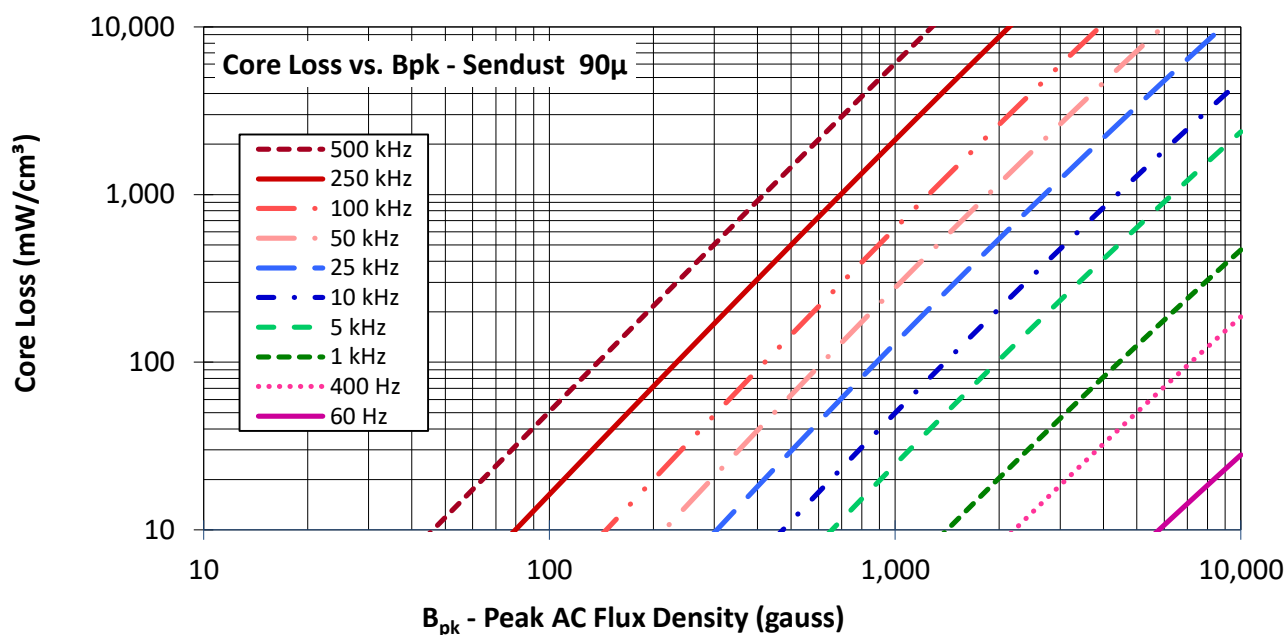
3: DC BIASED INDUCTANCE

| | | | |
|-----------------------------|---|--------|----|
| H _{DC} | : | 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/cm³
 CORE LOSS (MAXIMUM) : 320 mW/cm³




5: INDUCTANCE

μ_i (REFERENCE) : 90
 AL VALUE (NOMINAL) : 38 nH/N²
 TEST WINDING : N=60, #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 |  | | |
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