

SPECIFICATIONFORAPPROVAL

MODELNO. :A11 (T511S-V16)

VERSION :A1

KEFEITENO. :50-50-0.08X105PX10TS-6.3uH-5mm-01

DATE :2021/09/16

SHENZHENKEFEITEELECTRONICSCO. , LTD

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website)



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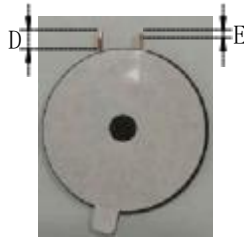
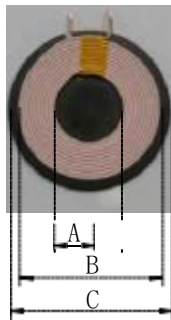
CUSTOMER:	KFT-050	VERSION:	A1	
KFT P/N:	50-0.08X105PX10TS-6.3uH-5mm-01	Date:	2021/09/16	
VERSION	MODIFY THE CONTENT	Date	Drawn By	Checked By
A1	Version	2021/09/16	Hu Guoqiang	Zhou Miao 

NOTES:

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1. CONFIGURATION&DIMENSIONS:



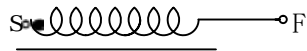
A	20.5±1.0mm
B	42.5±1.0mm
C	49±0.5mm
D	5±1.0mm
E	2.5±1.0mm
F	1.0±0.1mm
G	2.9mmMAX

1. Disc 50, disc thickness 1.0mm(straight slot)
- 2.H size does not include release paper thickness

2. ELEETTRICALCHARACTER:

Project	Specifications	Test conditions	Testing instrument
Inductance (Ls)	6.3±10%uH	100KHZ/1.0V	CH1062
DC Resistance (RDC)	48moMAX	At:25℃	HG2512
Quality factor (Q)	≥50	100KHZ/1.0V	CH1062
Antenna Type	Coil	Antenna Gain	0dBi

3. SCHEMATIC



4. PART NUMBERING:PRODUCT IDENTIFICATION

50	50C	0.08X105PX10TS5mm	6.3uH	01	
					Serialnumber
					Inductance
					LineLength
					Wire Diameter
					Magnetic Sheet Specification
					Customer number

DRAWNBY:	CHECKEDBY:	Q. C DEPT:	APPROVEDBY:
Hu Guoqiang	Zhou Miao		Wan Jianjun 

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5. MATERIALLIST:

NO	ITEM	DESCRIPTION	RATING	SUPPLIERS	ULNO.	REMARK
1	WIRE	Hot air line	155℃	SHANTOUSHENGANGELECTRICAL INDUSTRIALCO.,LTD	E239508	
2	SOLDER	99.3/0.7		SHENZHENHongXingWei solderLimited		
3	CORE	50/1.0(Circular groove)		ChangxingBOChengElectronics CO.,LTD		
4	EPOXY	1603HFR-HS		DONGBUFINECHEMICALCOLTD		
5	TAPE	PI260℃		SUZHOMAILADUONAELECTRIC MATERIALCO.,LTD	E188295	

6. GENERALSPECIFICATION:

- 1 Tested at1.0KHZ/0.25Vrms, 0 Adc.
Averagecurrentfor 40℃ temperaturerisefrom25℃.
- 2 Saturaioncurrent(Isat):
Inductance drop:10%typ atIsat.
- 3 Heatratingcurrent(Irms):
 $L@I_{rms}=\Delta T \leq 40^{\circ}\text{C}$.
- 4 Electricalspecificationsat25℃
- 5 StorageTemp:-40℃....+85℃
- 6 OperatingTemp:-40℃....+85℃

Project	Test conditions	Judgment criteria
Isat (Saturation current)	1. Normal indoor environment is 25 ℃ 2. Apply DC current in ten steps 3. Wait for the inductance value to stabilize before adding the next current step	$I_{sat}@L_a \geq \%L_0$ L: Test the inductance after loading DC current L0: The standard value of the unloaded DC current
Irms (Temperature rise current)	1. In a normal indoor environment of 25 ℃, ventilation is prohibited 2. Apply DC current in ten steps 3. The interval between each step is 5 minutes	$I_{rms}@ \Delta T \leq 40^{\circ}\text{C}$ 1. ΔT is the surface temperature of the inductor, which is the rising temperature relative to the initial test temperature 2. There should be no changes in the color or appearance of inductive components
L(85℃) (Inductance)	1. Bake at 85 ℃ for 15 minutes, immediately remove and test the inductance. 2. The product must be tested within 10 seconds, with a temperature of approximately 85 ℃ TYP	$L(85^{\circ}\text{C}) \sim L_s$ 1. L_s: Inductance standard value (25 ℃) $L(85^{\circ}\text{C})$: Inductance (85 ℃) 2. The rate of change of inductance is within the range of standard values
DRAWNBY:	CHECKED BY:	Q. C DEPT:
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