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CUSTOMER	NUMBER
客户名称:	编号: 20210104
DESCRIPTION	QUANTITY
型 号: AFRH74-470M	数量: 10PCS
PART NO.	DHATE
品 名:	日期: 2021.1.4
CUSTOMER PART NO.	NOTE
客户料号:	注解:

APPROVAL SIGNATURE 客户承认签章				

APPROVED BY 核 准	Q.C.DEPT. 品 管	CHECKED BY 核 查	DRAWN BY	
1久 任	m E	仅	制作	

Rev.	Effective Date	Changed Contents	Change reasons	Approved By
A0	2021.1.4	New release	/	

TYPE:

SPECIFICATIONS

AFRH74-470M

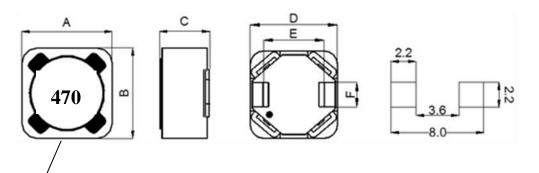
1. Scope

This specification apply for HSMRH74B of power inductors

2. Appearance

2-1.Dimensions(mm)

2-2.Recommended Land



A	7.5mm(Max)		
В	7.5mm(Max)		
С	4.5mm(Max)		
D	7.0 ± 0.3 mm		
Е	3.9 mm (Ref)		
F	2.0mm (Ref)		

Font size: Width 2.9*High1.6(Black) Song

3. Coils Specification

3-1. Connection (Bottom View)



"S" is winding start

3-2. Turns and Wire

Terminal	S-F
Turns	32.5 Ts
Wire	0.21mm G1 P180&2UEW-H





* Winding Turns are approx.

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^{*} Dimension without tolerance is approx.

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3-3. Electronical characteristics

Item	Specifications	Measuring Conditions	Measuring Instrument
Inductance	$47~\mu H \pm 20\%$ Within	100KHz/0.25V	TH2816B
D.C.R	260m Ω MAX	25℃	VR131
I.D.C%	1.1A MAX	100KHz/0.25V	TH2816B&VR7210

[%] This indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition or D.C current when temperature rise $\Delta T=40^{\circ}$ C whichever is lower .(Ta=20°C)

4. General Characteristics

4-1. Storage Temperature range : -40° C $\sim +100^{\circ}$ C

4-2. Operating temperature range: $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$ (Including coil's self temperature rise)

4-3. External appearance : No external defects can be found in the visual inspection.

4-4. Electrode strength : No electrode detachment should be found when the device is

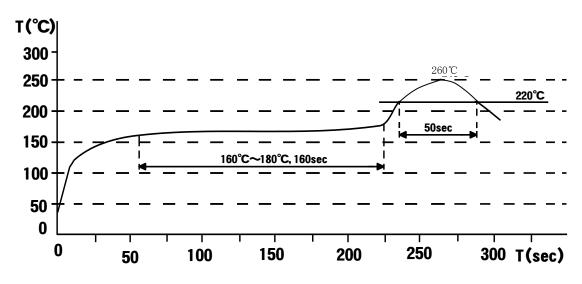
pushed in two directions of X and Y with the forceof 5.0N for 10±2 seconds after soldering

between copper plate and the electrodes.(Refer to figure at right)

4-5. Vibration test

: Inductance deviation is within $\pm 3.0\%$ after 1 hour sweeping vibration in each three directions, namely, forward and backward, up and down, right and left. The frequency is $10\sim55\sim10$ Hz and the amplitude of 1 minute cycle is 1.5mm PP.

4-6.Recommended reflow condition:



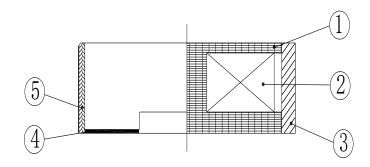


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4-7.Humidity test : Inductance deviation is within $\pm 5.0\%$ after 96 ± 4 hours test under the condition of relative humidity of 90 \sim 95% and temperature of 40 $\pm 2^{\circ}$ C, and 1 hour storage under room ambient conditions after the device is wiped with dry cloth.

5. Construction and materials



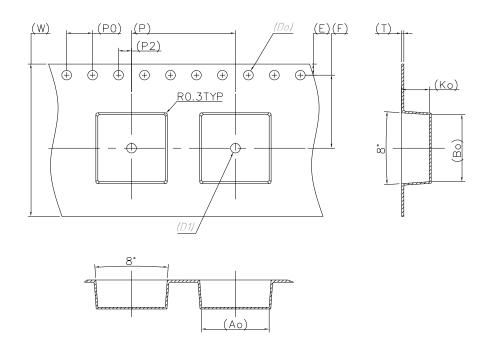
No.	Part name	Material	Remark
1)	Drum Core	Ni-Zn Ferrite Core	
2	Wire	Polyurethane enameled copper wire	
3	Ring Core	Ni-Zn Ferrite Core	
4	4 Adhesive Epoxy Resin 5 Electrode LCP (Cu+Sn) plating RH74		
(5)			

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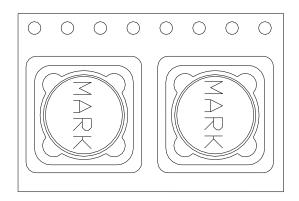
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6. TAPE DIMENSIONS:



W	16.00±0.30	Р	12.00±0.10	AO	7.90±0.10	В0	7.90±0.10
Ε	1.75±0.10	PO	4.00±0.10	T	0.40±0.05	D1	Ø1.50 ^{+0.10}
K0	4.80±0.10	P2	2.00±0.10	F	7.50±0.10	DO	Ø1.50±0.10

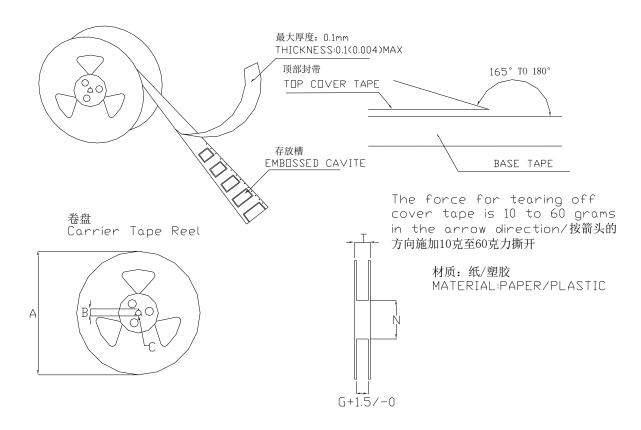


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7. TAPE REEL DIMENSIONS:



单位:毫米

Type	A	В	С	G	N	Т
16mm	330	21 ± 0.8	13 ± 0.4	16.4	100	20.4

PACKAGING QUANTITY: 1000 PCS /REEL

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