	SPEC. NO: T-0626-001Y
	DATE: Aug. 15, 2018
CUSTOMER'S PRODUCT NAME:	
EMTEK PRODUCT NAME: LSF0805-470J-T	
THIS SPECIFICATION IS:	
DENIED ACCEPTED UNDER THE FOLLOWING CONDITIONS	COMPLIANT
SIGNATURE:	DATE:
NAME(PRINT): TITLE:	



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39, Chingao Rd., (305)Hsinpu, Hsinchu Hsien, Taiwan, R. O. C TEL: 03-5894-433 FAX: 03-5894-523

## 1. Scope

This specification applies Ferrite Chip Inductance LSF0805-Series to be delivered to user.

## 2. Product Identification

- $\underline{LSF} 0805 470 \square \underline{T}$
- (1) (2) (3) (4) (5)
- (1) Product name
- (2) Shapes and dimensions
- (3) Inductance

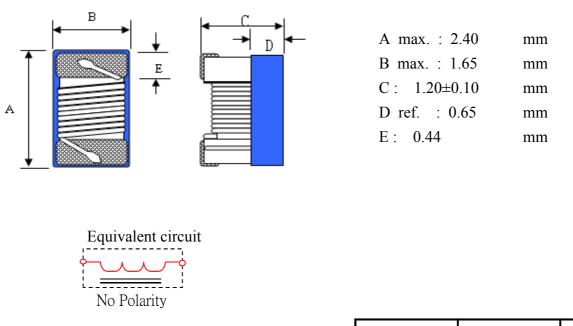
470 : 47 uH

(4) Tolerance

J=±5%, K=±10%

(5) Taping Type

## 3. Shapes and Dimensions



Drawn by	Checked by	Approved by
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Apr. 11. 2017	Apr-11.2017	Apr. 11. 2017

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## 4. Electrical Characteristics

Customer	Our Product	Inductance	Inductance	Q/MHz	SRF(Min.)	Rdc	Idc Max.	Color
Part Number	Part Number	(uH)/MHz	Tolerance	Min.	(MHz)	$(\Omega)$ Max.	(mA)	Coding
		47/2.5	J	13/2.5	12	13.10	60	White
	LSF0805-470 -T	4772.3	K	13/2.3	15	13.10	00	willte

- When ordering , please specify tolerance and packaging codes. Ex: LSF0805-470J-T Tolerance : J=±5%,K=±10% Packaging : Clear tape and reel { standard}.
- 2. L, Q SRF : Agilent/HP E4991A+ Agilent/HP16197A,
- (The electrical specification test by the smallest gap position) or HP16193A
- 3. Rdc : Chroma Milliohmmeter 16502, or equivalent.
- 4. Idc for Inductance drop 10% from its value without current.
- 5. Operating temperature range from -40  $^\circ C$  to 105  $^\circ C$  .
- 6. Irms for a 25  $^\circ\!\mathrm{C}$  rise above 25  $^\circ\!\mathrm{C}$  ambient.

## 5. Material list

Item	Material
Core	Ferrite core
Wire	Copper wire
Epoxy	UV Epoxy



#### COLOR CODING



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### 6. Reliability Test

. Reliability	Test	
Item	Specifications	Test conditions
Solderability	The metalized area must have 90% minimum solder coverage.	Dip pads in flux and dip in solder pot( 96.5 Sn/3.5 Ag solder) at 255°C ±5°C.
Resistance to soldering heat	There must be no case deformation or change in dimensions. Inductance must not change more than the stated tolerance.	Inductors shall be reflowed onto a PC board using 96.5 Sn/3.5 Ag solder paste. Solder process shall be at a maximum temperature of 260°C. For 96.5 Sn/3.5 Ag solder paste:>217°C for 90 seconds
Vibration	There must be no case deformation or change in dimensions. Inductance must not change more than the stated tolerance.	Solder specimen inductor on the test printed circuit board. Apply vibrations in each of the x,y and z directions for 2 hours for a total of 6 hours. Frequency : 10~50 Hz Amplitude : 1.5mm
High temperature resistance	There must be no case deformation or change in dimensions. Inductance must not change more than the stated tolerance.	Inductors shall be subjected to temperature 105±2°C for 50±12 hours. Measure the test items after leaving the inductors at room temperature and humidity for 2 hours.
Static Humidity	Inductors must not have a shorted or openwinding.	Inductors shall be subjected to temperature $85\pm2^{\circ}$ C and 90 to 95%RH. for ten 24-hours. Measure the test items after leaving the inductors at room temperature and humidity for 2 hours.
Component adhesion (push test)	Inductors shall be subjected to 0.9Kg	Inductors shall be reflow soldered (255°C ±5°C for 10 seconds) to a tinned copper substrate. A force gauge shall be applied to the side of the component. The device must withstand the stated force without a failure of the termination.



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Item	Specifications	Test conditions
Low temperature resistance	There must be no case deformation or change in dimensions. Inductance must not change more than the stated tolerance.	Inductors shall be subjected to temperature -40±2°C for 48±12 hours. Measure the test items after leaving the inductors at room temperature and humidity for 1 to 2 hours.
Resistance to solvent	There must be no case deformation, change in dimensions, or obliteration of marking.	Inductors must withstand 6 minutes of alcohol or water.
Thermal cycle	There must be no case deformation or change in dimensions. Inductance must not change more than the stated tolerance.	Inductors shall be subjected to 5 cycles to the the following temperature cycle: $105^{\circ}C \xrightarrow{1} \frac{1 \text{ cycle}}{30 \text{ min.}}$ $-40^{\circ}C \xrightarrow{30 \text{ min.}}$ Measure the test items after leaving the inductors at room temperature and humidity for 2 hours.

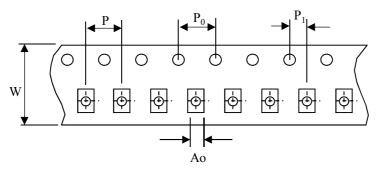


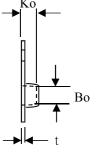
Rot

## 7. Packaging

The packaging must be done not to receive any damage during transporting and storing.

## 7-1 Tape dimensions

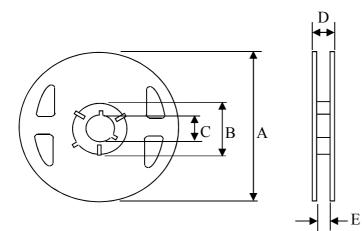




(Dimensions in mm; Tolerance :  $\pm 0.1$ )

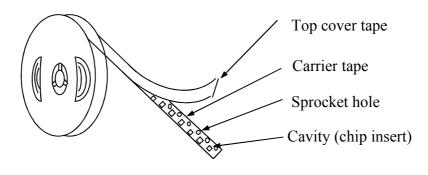
Symbol	W	Р	P <sub>0</sub>	P <sub>1</sub>	Ao	Bo	Ko	t
Dimension	8	4	4	2	1.65	2.4	1.3	0.22

### 7-2 Reel dimensions



	(Dimensions in mm)
Symbol	Т
А	180
В	60
С	13
D	14.4
Е	8.4

### 7-3 Tapping figure

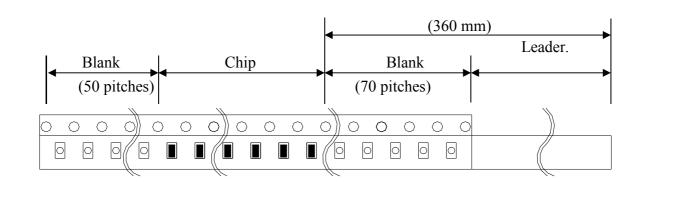




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#### 7-4 Packaging Form

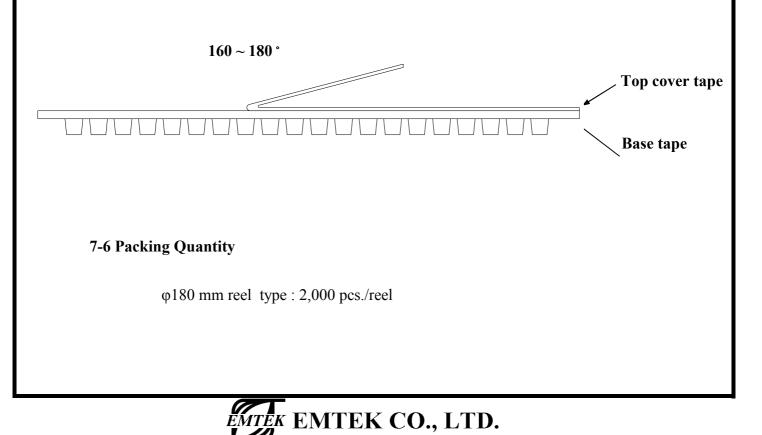
There shall not continuation more than two vacancies of the product.

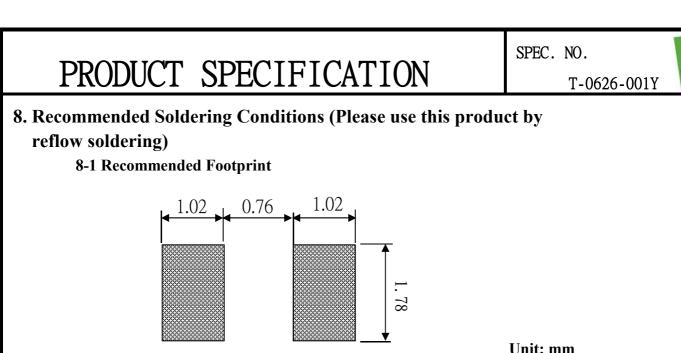


#### 7-5 Cover Tape Peel Strength

The force for tearing off cover tape is  $0.1 \sim 0.6(N)$  in the arrow direction at the following conditions:

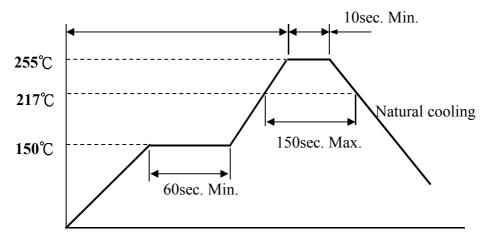
Temperature :  $5 \sim 35^{\circ}$ C Humidity :  $45 \sim 85\%$ Atmospheric pressure :  $860 \sim 1060$  hpa





#### 8-2 Recommended Reflow Pattern

Reflow : until two times



#### 8-3 Iron Soldering

Use a solder iron of less than 30W when soldering ,do not allow the soldering iron tip directly touch the Ceramic body outside of terminal electrode.

5 seconds max. at  $260^{\circ}$ C.

### 9. Attention in Case of Using

In case of using product ,please avoid following matters:

Splashing water or salt water

Dew condenses

Toxic gas (Hydrogen sulfide, Sulfurous acid ,Chlorine, Ammonia)

Vibrations or shocks which exceed the specified condition

Please be careful for the stress to this product by board flexure or something after the mounting.

### 10. Others

- 10-1 Operating temperature range : Ferrite Series :-40~+105 $^{\circ}$ C
- 10-2 Storage condition : Temperature  $20^{\circ} \sim 25^{\circ}$ C, Relative Humidity  $40\% \sim 60\%$
- 10-3 Recommended wire wound inductors should be used within 6 months from the time of delivery.



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