		SPEC. NO: T-0626-003f		
		DATE: Aug. 15, 2	018	
CUSTOMER'S PRODUCT NAME:				
EMTEK PRODUCT NAME:				
LSF1	1210-8R2J-T			
THIS SPECIFICATION IS: FULLY ACCEPTED DENIED ACCEPTED UNDER THE	FOLLOWING CONDITIONS		ROHS	
	SIGNATURE:	DATE:		
	NAME(PRINT):			
	TITLE:			



FACTORY:

39, Chingao Rd., (305) Hsinpu, Hsinchu Hsien, Taiwan, R.O.C

TEL: 03-5894-433 FAX: 03-5894-523

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1. Scope

This specification applies Ferrite Chip Inductance LSF1210-Series to be delivered to user.

2. Product Identification

- (1) (2)
- (3) (4) (5)
- (1) Product name
- (2) Shapes and dimensions
- (3) Inductance

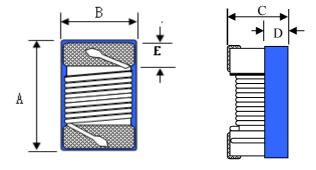
8R2: 8.2 uH

(4) Tolerance

 $J=\pm 5\%$, $K=\pm 10\%$

(5) Taping Type

3. Shapes and Dimensions



A max.: 3.60. mm B max.: 2.90 mm C max.: 2.50 mm D ref.: 1.10 mm E: 0.5 ± 0.1 mm

Equivalent circuit



Drawn by	Checked by	Approved by
Cindy	Thens	Pragon
Nov. 20.2015	Nov. 202015	Nov. 20. 2015

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4. Electrical Characteristics

Customer	Our Product	Inductance	Inductance	Q/MHz	SRF(Typ.)	Rdc	Idc Max.		Color	
Part Number	Part Number Part Number		Tolerance	Min.	(MHz)	(Ω)Max.	(mA)		Coding	;
	I CE1210 OD2	8.2/7.9	J	20/7.0	00	1.60	600	C	D - 4	Red
	LSF1210-8R2T	8.2/1.9	K	30/7.9	90	1.60	600	Gray	Red	Red

1. When ordering, please specify tolerance and packaging codes. Ex: LSF1210-8R2J-T

Tolerance : $J = \pm 5\%$, $K = \pm 10\%$, $M = \pm 20\%$

Packaging: Clear tape and reel { standard }.

2. L, Q: Agilent/HP E4991A+ Agilent/HP16197A

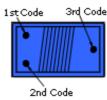
3. SRF: Agilent/HP E4991A+ Agilent/HP 16197A

4. Rdc: Chroma Milliohmmeter 16502, or equivalent.

5. Idc for Inductance drop 10% from its value without current.

6. Operating temperature range from -25° C to 105° C.

7. Irms for a 25°C rise above 25°C ambient.



COLOR CODING

5. Material list

Item	Material
Core	Ferrite core
Wire	Copper wire
Epoxy	UV Epoxy

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6. 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 500±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±2°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 1.8Kg	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	There must be no case deformation or	Inductors shall be subjected to temperature
temperature	change in dimensions.	-25±2°C for 500±12 hours.
resistance	Inductance must not change more	Measure the test items after leaving the inductors
	than the stated tolerance.	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	There must be no case deformation or	Inductors shall be subjected to 10 cycles to the
Shock	change in dimensions.	the following temperature cycle:
	Inductance must not change more	the following temperature cycle.
	than the stated tolerance.	1 cycle 30 min. 3 min. 30 min.
		Measure the test items after leaving the inductors at room temperature and humidity for 2 hours.

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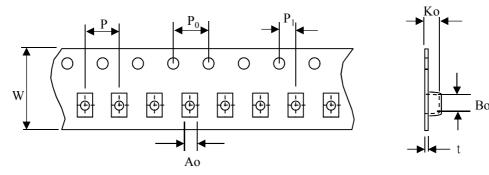
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7. Packaging

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

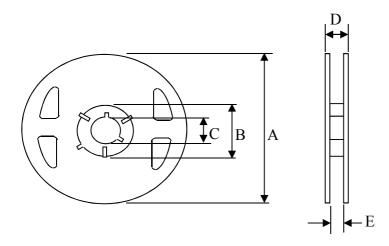
7-1 Tape dimensions



(Dimensions in mm; Tolerance : ± 0.1)

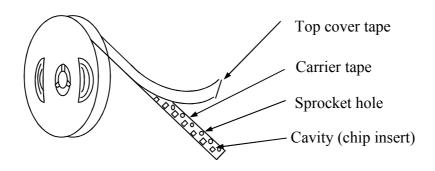
Symbol	W	P	P_0	P_1	Ao	Во	Ko	t
Dimension	8	4	4	2	2.88	3.72	2.5	0.26

7-2 Reel dimensions



	(Dimensions in mm)
Symbol	T
A	180
В	60
С	13
D	14.4
Е	8.4

7-3 Tapping figure



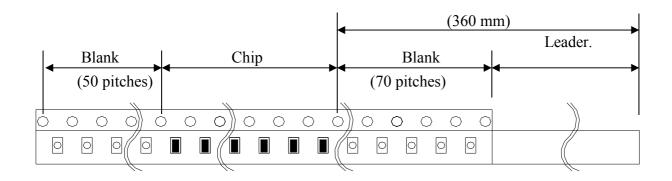
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7-4 Packaging Form

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

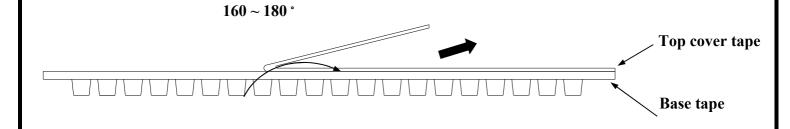


7-5 Cover Tape Peel Strength

The force for tearing off cover tape is $0.1\sim0.6(N)$ in the arrow direction at the following conditions:

Temperature : $5 \sim 35^{\circ}$ C Humidity : $45 \sim 85\%$

Atmospheric pressure: 860 ~ 1060 hpa



7-6 Packing Quantity

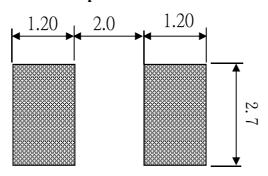
φ180 mm reel type: 2,000 pcs./reel

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8. Recommended Soldering Conditions (Please use this product by reflow soldering)

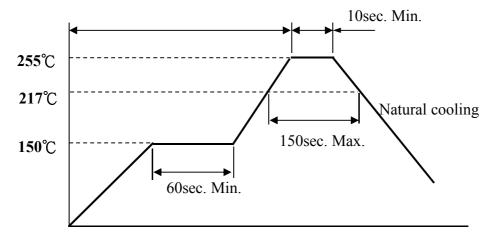
8-1 Recommended Footprint



Unit: mm

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°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 :-25 \sim + 105 $^{\circ}$ C

10-2 Storage condition : Temperature $20^{\circ} \sim 25^{\circ} \text{C}$, 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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CR54NP-820KC CR54NP-8R5MC 70F224AI MGDQ4-00004-P MHL1ECTTP18NJ MHQ1005P10NJ MHQ1005P1N0S MHQ1005P2N4S
MHQ1005P3N6S MHQ1005P5N1S MHQ1005P8N2J PE-51506NL PE-53601NL PE-53602NL PE-53630NL PE-53824SNLT PE-92100NL
PG0434.801NLT PG0936.113NLT 9220-20 9310-16 PM06-2N7 PM06-39NJ A01TK 1206CS-471XJ HC2LP-R47-R HC2-R47-R HC32R2-R HCF1305-3R3-R 1206CS-151XG RCH664NP-140L RCH664NP-4R7M RCH8011NP-221L RCP1317NP-332L RCP1317NP-391L