

Product Specification for Approval

WE ARE PLEASED IN SUBMITTING OUR SAMPLES WITH SPECIFICATION TO YOU FOR APPROVAL.

CUSTOMER	:	
DESCRIPTION	:	10/100 BASE-T TRANSFORMER
COMPANY P/N	:	LT1188
VERSION	:	A0
CUSTOMER P/N	:	
ISSUED DATE	:	2022. 02. 15
PHOTO OF PRODUCT	:	
WEIGHT	:	0. 71g
MADE IN	:	CHINA

APPROVED BY RAIN		
PREPARED BY	CHECKED BY	APPROVED BY

APPROVED BY CUSTOMER
SIGNATURE OR STAMP

1. PLEASE SEND BACK US A COPY OF THE SPECIFICATION WITH YOUR STAMP OR SIGNATURE ONCE THE SAMPLES APPROVED.
2. IT WILL BE DEEMED THE SAMPLES TO BE APPROVED IF NO FEEDBACK.

HISTORY FOR REVISED SPECIFICATION**Part No. LT1188****INDEX**

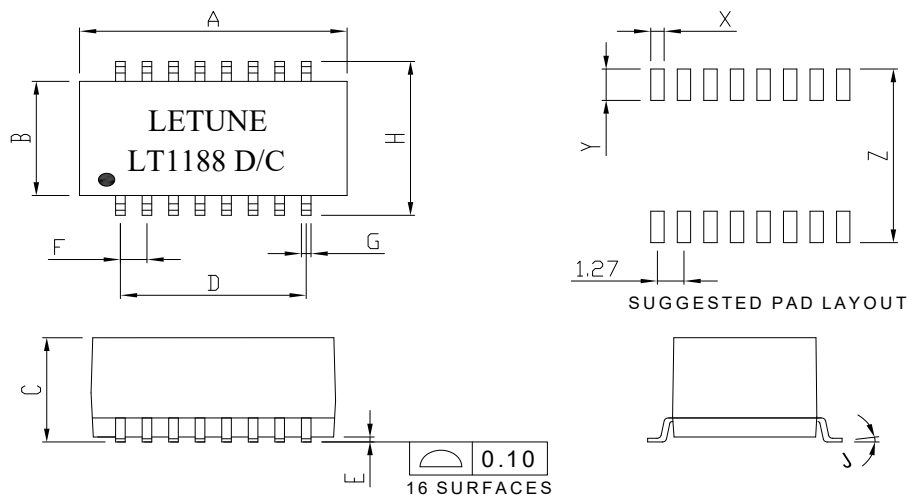
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CHANGE RECORD

REV.	DESCRIPTION (Content or Reason For Change)	DATE	REVISOR
A0	INITIAL RELEASE	2022/2/15	Erick Feng

SPECIFICATION**Part No. LT1188**

A. MECHANICAL :



Note: Laser printing marking

YY WW - G

Week

Year

1.UNITS:mm/inch.

2.UNLESS OTHERWISE SPECIFIED ALL
TOLERANCES ARE: TYPICAL

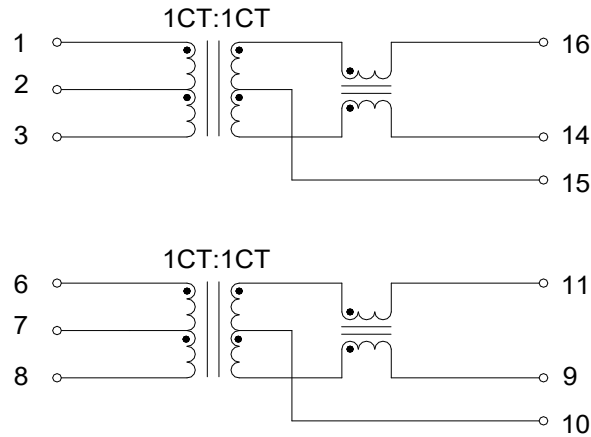
3.PIN LENGTH DON'T INCLUDE SOLDER
POINT

	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	NOM	MAX
A	12.30	12.80	13.30	0.484	0.504	0.524
B	6.40	6.90	7.40	0.252	0.272	0.291
C	/	/	6.40	/	/	0.252
D	8.39	8.89	9.39	0.330	0.350	0.370
E	0.15	0.30	0.45	0.006	0.012	0.018
F	/	1.27	/	/	0.050	/
G	/	0.46	/	/	0.018	/
H	8.90	9.40	9.90	0.350	0.370	0.390
I	/	0.70	/	/	0.028	/
J	0°	/	8°	0°	/	8°
X	/	0.76	/	/	0.030	/
Y	/	2.03	/	/	0.080	/
Z	/	10.60	/	/	0.417	/

SPECIFICATION

Part No. LT1188

B. SCHEMATIC :



C. ELECTRICAL SPECIFICATION @25°C

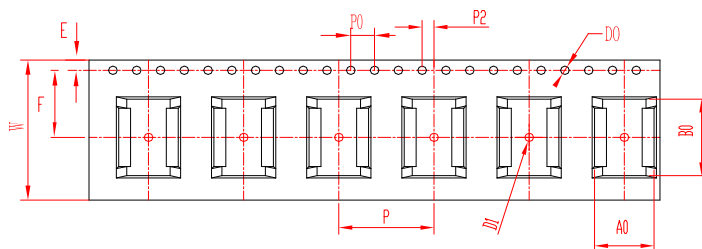
ITEM	SPECIFICATION	TEST CONDITION	TEST EQUIPMENT
INDUCTANCE	350uH MIN.	100KHz 0.2V 8mA DC Bias	TH2819XB OR EQU.
LEAKAGE INDUCTANCE	0.50uH MAX.	100KHz 0.2V	TH2819XB OR EQU.
INTERWINDING CAPACITANCE	25pF TYP.	100KHz 0.2V	TH2819XB OR EQU.
DC RESISTANCE	1.2Ω MAX.	AT 25 °C	TOS 8020 OR EQU.
TURNS RATIO	1CT:1CT±5%		TH2819XB OR EQU.
POLARITY	1-16,6-11 IN-PHASE		
INSERTION LOSS	-1.1dB MAX.	0.5-100 MHz	E5061A OR EQU.
RETURN LOSS	-18dB MIN.	0.5-30 MHz	E5061A OR EQU.
	-18+20*log(f/30)dB MIN.	30.1-60MHz	
	-12dB MIN.	60.1-80MHz	
CROSS TALK	-35dB MIN.	0.5-40MHz	E5061A OR EQU.
	-33+20*log(f/50)dB MIN.	40.1-100MHz	
CMRR	-30dB MIN.	0.5-100MHz	E5061A OR EQU.
ISOLATION HI-POT :PRI TO SEC	1500VAC	1mA,60S	7152AB OR EQU.
	1650VAC	1mA,6S	
OPERATING TEMPERATURE	-40°C TO 85°C		

PACKAGE

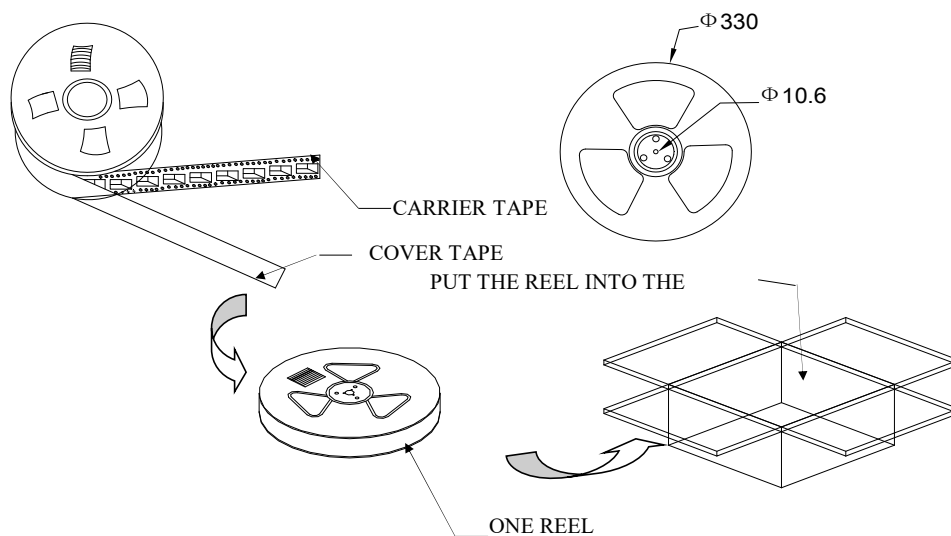
Part No. LT1188

D. PACKING:

a. PACKAGING AS BELOW (ONLY FOR A REFERENCE):



ITEM	W	A ₀	B ₀	K ₀	K ₁	P	F	E	D ₀	D ₁	P ₀	P ₂	T
DIM	24.0 ^{+0.30} _{-0.30}	10.0 ^{+0.10} _{-0.10}	13.10 ^{+0.10} _{-0.10}	5.60 ^{+0.10} _{-0.10}	5.10 ^{+0.10} _{-0.10}	16.0 ^{+0.10} _{-0.10}	11.50 ^{+0.15} _{-0.15}	1.75 ^{+0.10} _{-0.10}	1.50 ^{+0.10} _{-0.10}	1.50 ^{+0.10} _{-0.10}	4.00 ^{+0.10} _{-0.10}	2.00 ^{+0.10} _{-0.10}	0.40 ^{+0.05} _{-0.05}
ALTBDATE													



b. Q'TY:

600 PCS PER REEL
5 REELS PER CARTON
3000 PCS PER CARTON

c. LABEL:



REMARK:

ABOVE PACKING IS FOR YOUR REFERENCE ONLY, WHICH MIGHT BE CHANGED WITHOUT NOTICE.

MATERIAL LIST

Part No. LT1188

E.BOM

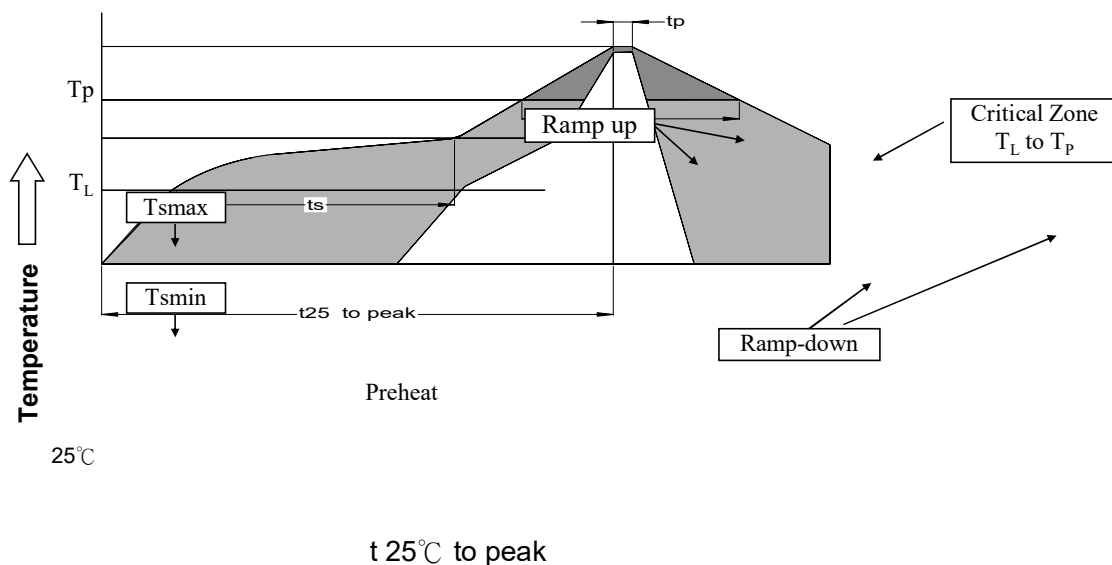
MATERIAL LIST					
NO.	ITEM	MATERIAL	RATING	SUPPLIER OF MATERIAL	UL
1	CORE	Mn-Zn	-----	YEAN SHING	N/A
			-----	RUYUAN DONGYANGGUANG MAGNETIC MATERIAL CO.,LTD	N/A
		Ni-Zn	-----	YEAN SHING	N/A
			-----	RUYUAN DONGYANGGUANG MAGNETIC MATERIAL CO.,LTD	N/A
2	COPPER WIRE	@QPN180*	180℃	ZHUHAI SUNTEK WIRE CO.,LTD	E234867
		Polysol 180	180℃	ELEKTRISOLA(MALAYSIA)SDN. BHD.	E258243
3	CASE	WH-9100	V-0	WAH HONG INDUSTRIAL CORP	E150608
4	PIN	C5191	-----	JINGHE	N/A
5	VARNISH	BC-346A	200℃	JOHN C.DOLPH CO	E317427
6	SOLDER	SN100C	-----	ELECTROLOY METAL (SHENZHEN)CO.,LTD	N/A
7	FLUX	WATER SOLUBILITY	-----	RUN YUAN	N/A

RECOMMENDED SOLDERING PROFILE

Part No. LT1188

a. RECOMMENDED REFLOW SOLDERING PROFILE:

below content is only for your reference



$$T_L = 217^\circ\text{C}$$

$$T_p = 245^\circ\text{C}$$

$$t_s = 60-180\text{s} \quad T_{s \text{ max}} = 200^\circ\text{C} \quad T_{s \text{ min}} = 150^\circ\text{C}$$

$$t_L = 60-150\text{s} \quad t_p = 20-40\text{s} \quad T_{25^\circ\text{C to peak}} = 8\text{min max}$$

$$\text{Ramp up rate} = 3^\circ\text{C/s max} \quad \text{Ramp down rate} = 6^\circ\text{C/s max}$$

*RoHS Compliant

*Solder Paste SAC 305 Sn 96.5/Ag 3.0/Cu 0.5

*Silkscreen thickness: 0.15mm Min

b. MOISTURE SENSITIVE LEVEL:

b.1. LEVEL: 1

b.2. SHELF LIFE: UNLIMITED

b.3. STORAGE CONDITION: $\leq 30^\circ\text{C}/85\% \text{ RH}$