



THE DATASHEET OF H1601CG

Product Specification for Approval

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

CUSTOMER	:	
DESCRIPTION	:	10/100 BASE-T TRANSFORMER
MNC P/N	:	H1601CG
VERSION	:	A0
CUSTOMER P/N	:	
ISSUED DATE	:	2020/04/02
PHOTO OF PRODUCT	:	
WEIGHT	:	0.71g
MADE IN	:	CHINA



APPROVED BY MNC			研发专用章	APPROVED BY CUSTOMER
PREPARED BY	CHECKED BY	APPROVED BY		SIGNATURE OR STAMP
研发部 2020-04-02 符晶晶	研发部 2020-04-02 肖明华	研发部 2020-04-02 何校民		

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

东莞铭普光磁股份有限公司

TEL: +86-769-86921000

Add: Shipai Town, Dongguan City, Guangdong Province, China

FAX: +86-769-81701563

HISTORY FOR REVISED SPECIFICATION**Part No. H1601CG****INDEX**

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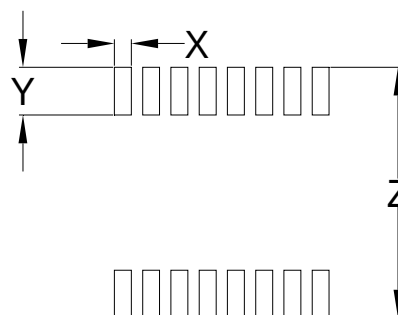
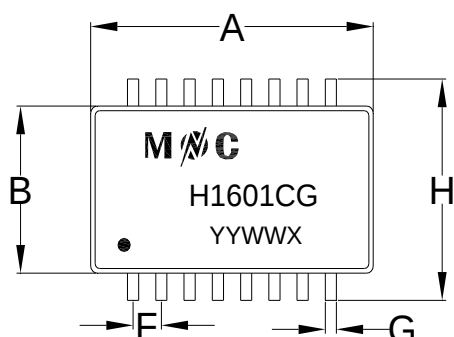
CHANGE RECORD

REV.	DESCRIPTION (Content or Reason For Change)	DATE	REVISOR
A0	INITIAL RELEASE	2020-04-02	Jingjing Fu

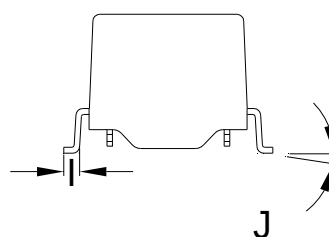
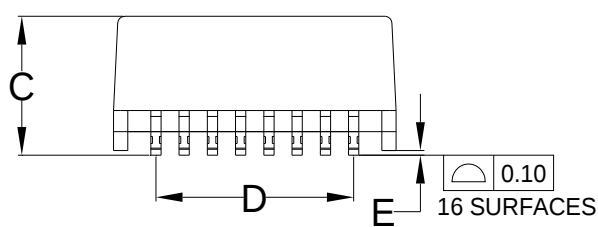
SPECIFICATION

Part No. H1601CG

A. MECHANICAL :



SUGGESTED PAD LAYOUT



Note: Laser printing marking

YY WW X
Production line code
(A to Z)
Week
Year

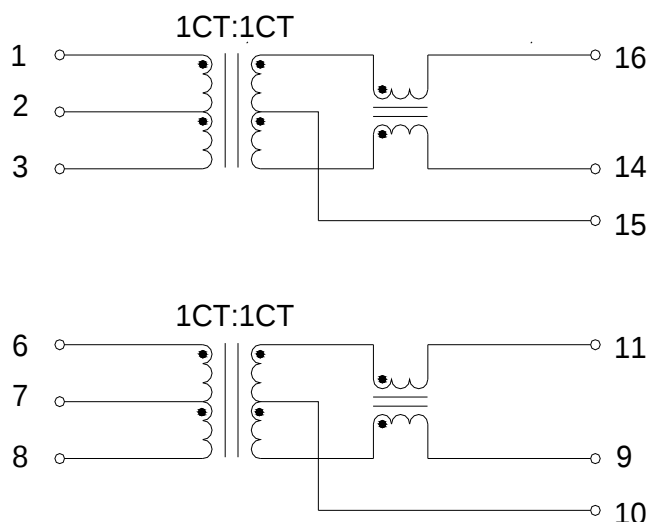
- 1.UNITS:mm/inch.
2.UNLESS OTHERWISE SPECIFIED ALL
TOLERANCES ARE: TYPICAL
3.PIN LENGTH DON'T INCLUDE SOLDER POINT

	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	NOM	MAX
A	12.20	12.70	13.20	0.480	0.500	0.520
B	6.60	7.10	7.60	0.260	0.280	0.299
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

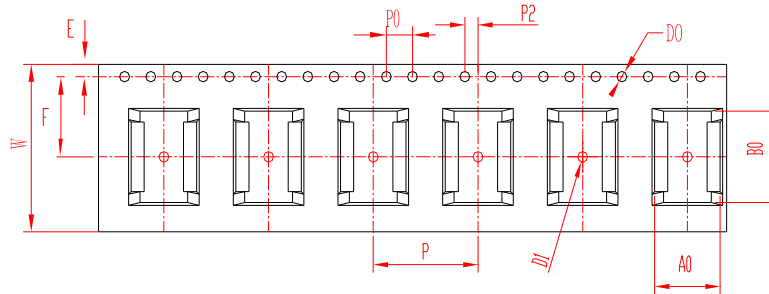
Part No. H1601CG

B. SCHEMATIC :

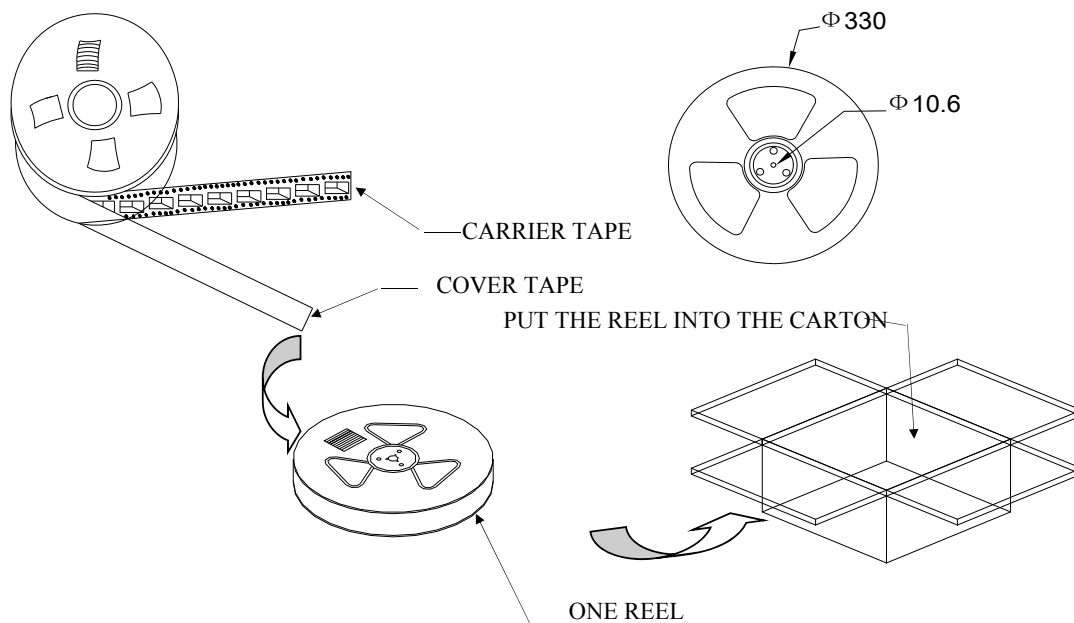


C. ELECTRICAL SPECIFICATION @25°C

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.
URNS 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	0°C TO 70°C		

PACKAGE
Part No. H1601CG
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}
ALTB RNATE													


b. Q'TY:

600 PCS PER REEL
 7 REELS PER CARTON
 4200 PCS PER CARTON

c. LABEL:

REMARK:

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

MATERIAL LIST
Part No. H1601CG
E.BOM

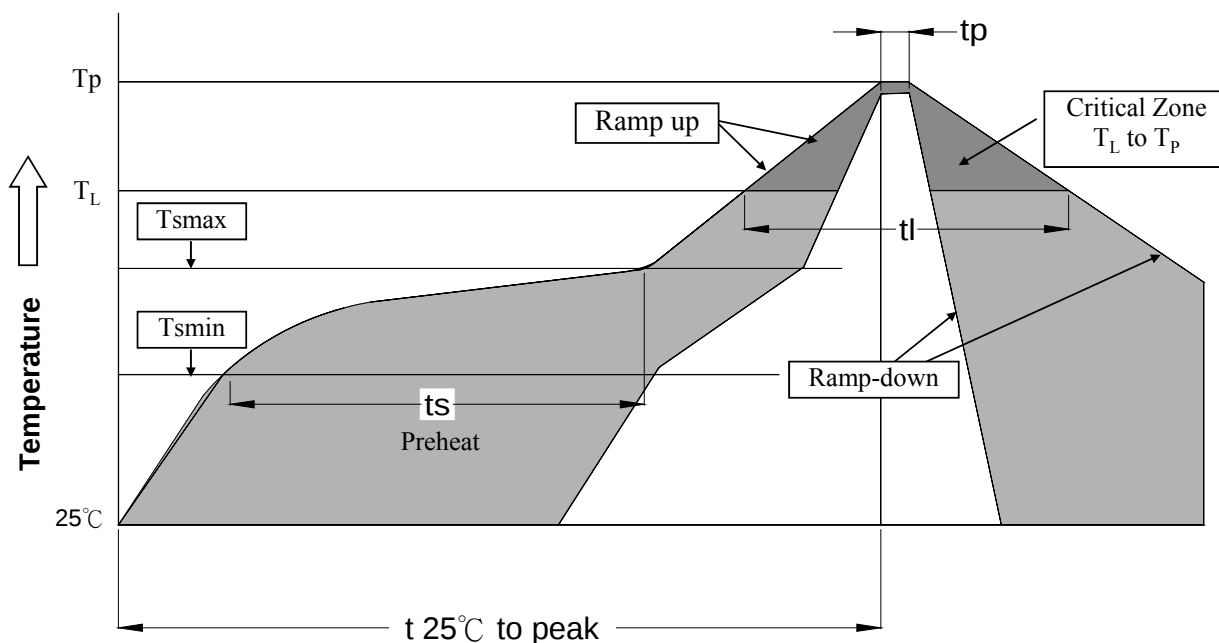
MATERIAL LIST					
NO.	ITEM	MATERIAL	RATING	SUPPLIER OF MATERIAL	UL
1	CORE	Mn-Zn	-----	YEAN SHING	N/A
			-----	ZHONGSHAN CRC ELECTRONICS FACTORY	N/A
		Ni-Zn	-----	YEAN SHING	N/A
			-----	ZHONGSHAN CRC ELECTRONICS FACTORY	N/A
2	COPPER WIRE	QPN180	180℃	ZHUHAI SUNTEK WIRE CO.,LTD	E234867
		Polysol 180	180℃	ELEKTRISOLA(MALAYSIA)SDN. BHD.	E258243
3	CASE	WH-8100	V-0	WAH HONG INDUSTRIAL CORP	E150608
4	PIN	C5191	-----	SHENZHEN MINGSCHIN INDUSTRIAL MATERIAL CO.,LTD.	N/A

RECOMMENDED SOLDERING PROFILE

Part No. H1601CG

a. RECOMMENDED REFLOW SOLDERING PROFILE:

below content is only for your reference



T_L = 217°C

T_p = 245°C

ts = 60-180s T_{s max} = 200°C T_{s min} = 150°C

t_L = 60-150s tp = 20-40s T_{25°C to peak} = 8min max

Ramp up rate = 3°C/s max Ramp down rate = 6°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: ≤30°C/85% RH

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View H1601CG](#) on WIN SOURCE
-  [Mentech Technology USA Inc.](#) Information

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management