



THE DATASHEET OF G1801DG

Product Specification for Approval

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

CUSTOMER	:	
DESCRIPTION	:	10/100/1000 BASE-T TRANSFORMER
MNC P/N	:	G1801DG
VERSION	:	A0
CUSTOMER P/N	:	
ISSUED DATE	:	2020/04/27
PHOTO OF PRODUCT	:	
WEIGHT	:	2.26g
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 2020-04-27 符晶晶	研发部 2020-04-27 肖明华	研发部 2020-04-27 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.

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HISTORY FOR REVISED SPECIFICATION**Part No. G1801DG****INDEX**

1. INDEX-----	1
2. CHANGE RECORD-----	1
3. MECHANICAL-----	2
4. SCHEMATIC-----	3
5. PACKING-----	4
6. MATERIAL LIST-----	5
7. RECOMMENDED SOLDERING PROFILE-----	6

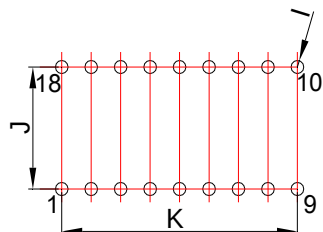
CHANGE RECORD

REV.	DESCRIPTION (Content or Reason For Change)	DATE	REVISOR
A0	INITIAL RELEASE	2020-04-27	Jingjing Fu

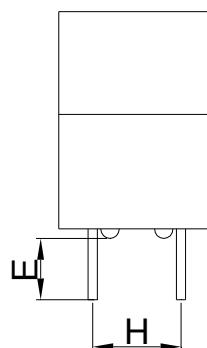
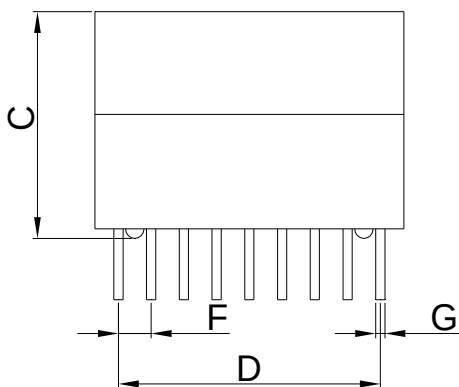
SPECIFICATION

Part No. G1801DG

A. MECHANICAL :



SUGGESTED PAD LAYOUT



Note: White ink marking

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

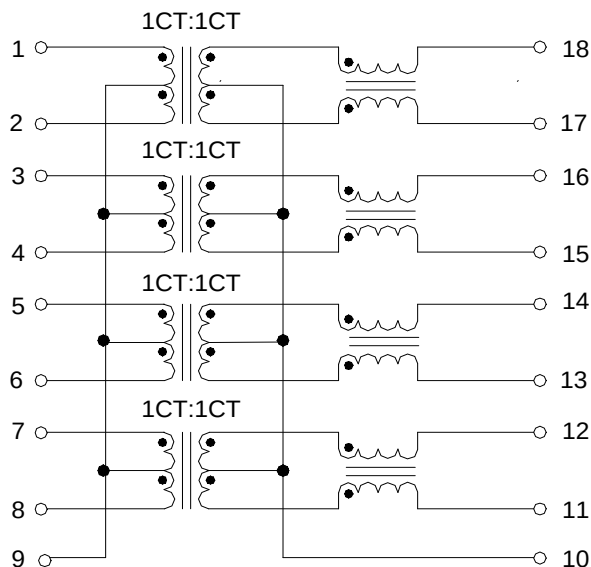
- 1.UNITS:mm/inch.
2.UNLESS OTHERWISE SPECIFIED ALL
TOLERANCES ARE: TYPICAL
3.PIN LENGTH DON'T INCLUDE SOLDER POINT

	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	NOM	MAX
A	16.30	16.80	17.30	0.642	0.661	0.681
B	8.00	8.50	9.00	0.315	0.335	0.354
C	/	/	11.85	/	/	0.467
D	/	14.25	/	/	0.561	/
E	2.90	3.20	3.50	0.114	0.126	0.138
F	/	1.78	/	/	0.070	/
G	/	0.50	/	/	0.020	/
H	/	4.80	/	/	0.189	/
I	/	0.80	/	/	0.031	/
J	/	4.80	/	/	0.189	/
K	/	14.24	/	/	0.561	/

SPECIFICATION

Part No. G1801DG

B. SCHEMATIC :



C. ELECTRICAL SPECIFICATION @25℃

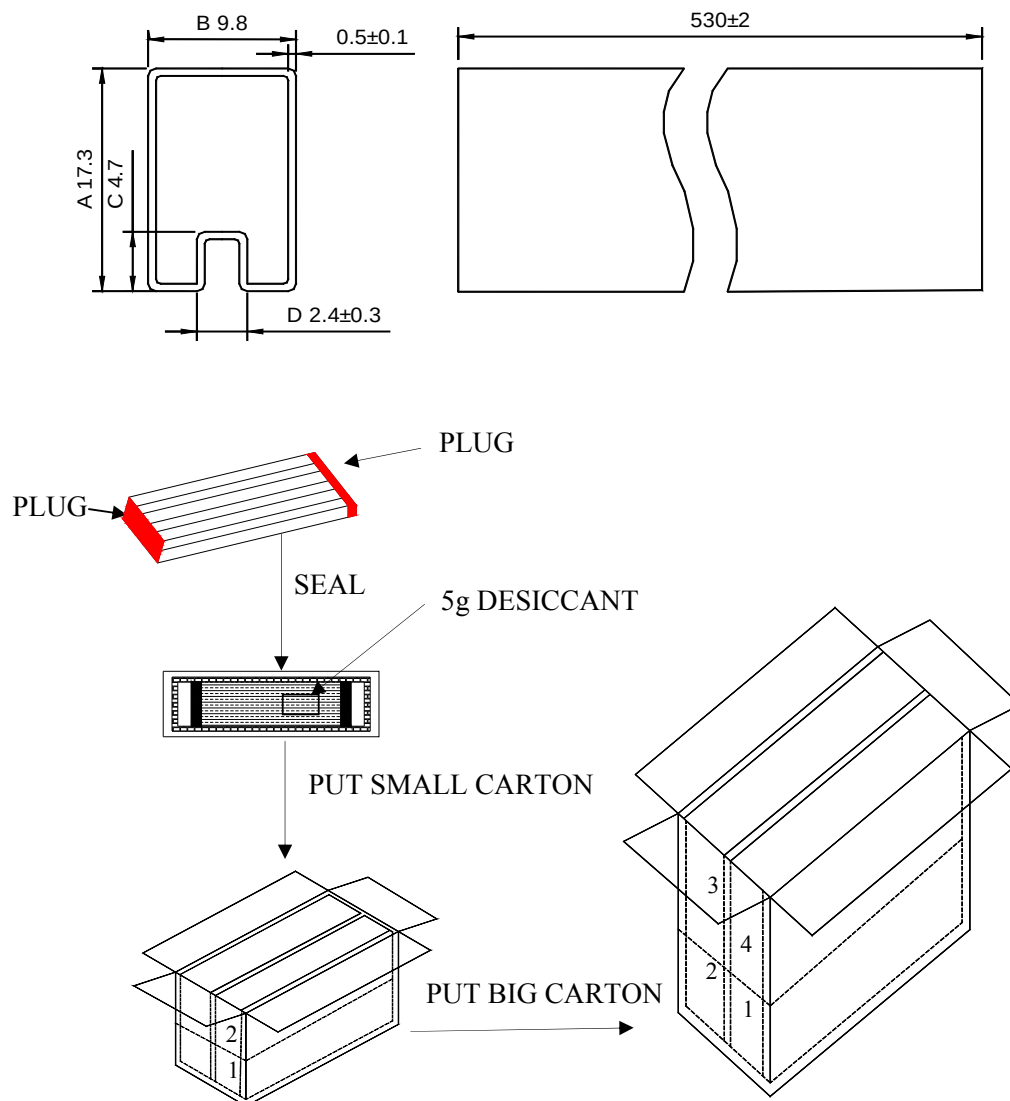
ITEM	SPECIFICATION	TEST CONDITION	TEST EQUIPMENT
INDUCTANCE :	350uH MIN.	100KHz 0.2V 8mA DC Bias	TH2819XB OR EQU.
LEAKAGE INDUCTANCE :	0.50uH MAX.	100KHz 0.2V	TH2819XB OR EQU.
INTERWINDING CAPACITANCE :	100pF TYP.	100KHz 0.2V	TH2819XB OR EQU.
DC RESISTANCE :	1.4Ω MAX.	AT 25 °C	TOS 8020 OR EQU.
TURNS RATIO :	1CT:1CT±5%		TH2819XB OR EQU.
POLARITY :	1-18,3-16,5-14,7-12 IN-PHASE		
INSERTION LOSS :	-1.1dB MAX.	0.5-100 MHz	E5061A OR EQU.
RETURN LOSS :	-18dB MIN.	0.5-40 MHz	E5061A OR EQU.
	-12+20*log(f/80)dB MIN.	40.1-100 MHz	
CROSS TALK :	-35dB MIN.	0.5-40 MHz	E5061A OR EQU.
	-33+20*log(f/50)dB MIN.	40.1-100 MHz	
CMRR :	-30dB MIN.	0.5-100 MHz	E5061A OR EQU.
ISOLATION HI-POT :PRI TO SEC	1500VAC	1mA,60S	7152AB OR EQU.
	1650VAC	1mA,6S	
OPERATING TEMPERATURE	0℃ TO 70℃		

PACKAGE

Part No. G1801DG

D. PACKING:

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



b. Q'TY:

30 PCS PER TUBE
 4 TUBES PER BUNDLE (120 PCS)
 10 BUNDLES PER BAG (1200 PCS)
 1 BAG PER SMALL CARTON
 4 SMALL CARTON PER BIG(4800PCS)

c. LABEL:



REMARK:

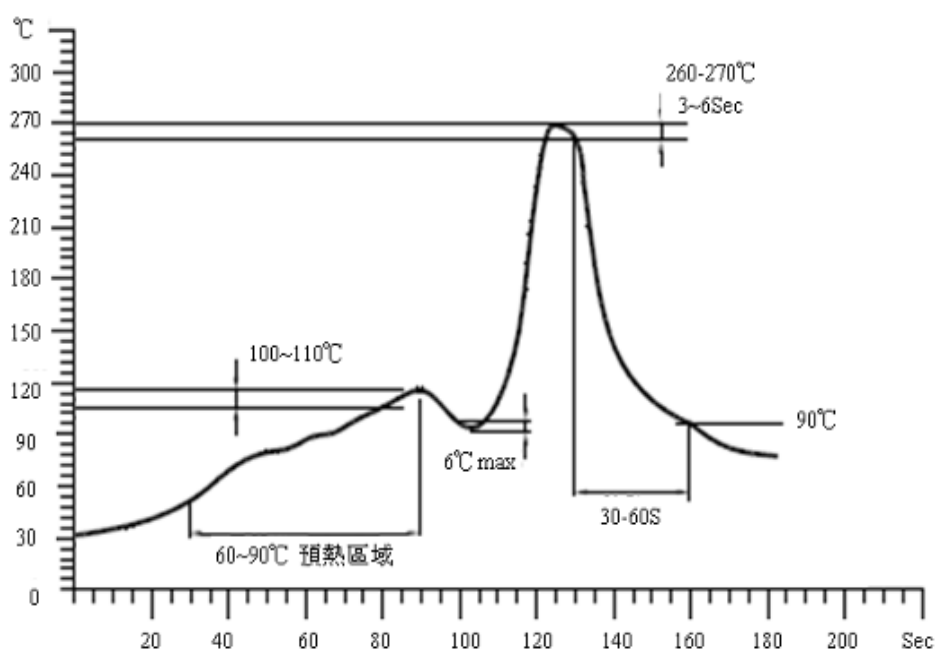
ABOVE PACKING IS FOR YOUR REFERENCE ONLY, WHICH MIGHT BE CHANGED WITHOUT NOTICE.

MATERIAL LIST
Part No. G1801DG
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	PF2A5-151J(b)	V-0	CHANGSHU SOUTH-EAST PLASTIC CO.,LTD	E136137
		T378J	V-0	CHANG CHUN CHEMICAL(ZHANGZHOU) CO.,LTD.	E59481
4	PIN	CP WIRE	-----	HIFAM	N/A
5	EPOXY	3300A/B	-----	DONGGUAN EATTO ELECTRONIC MATERIAL CO.,LTD	E218090

RECOMMENDED WAVE SOLDERING PROFILE**Part No. G1801DG****a. RECOMMENDED WAVE SOLDERING PROFILE:****CONDITION:**

- a.1. AVAILABLE FOR ALL THE THROUGH HOLE PARTS
- a.2. SOLDERING METHOD: WAVE SOLDERING
- a.3. SOLDER: Sn-0.7Cu
- a.4. THE RECOMMENDED WAVE SOLDERING CURVE IS AS BELOW

**b. MOISTURE SENSITIVE LEVEL:**

- b.1. LEVEL: 1
- b.2. SHELF LIFE: UNLIMITED
- b.3. STORAGE CONDITION: $\leq 30^{\circ}\text{C}/85\% \text{ RH}$

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ View [G1801DG](#) 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