

SPECIFICATION FOR APPROVAL

ITEM P/N	TPMA2313SP-SERIES	TEST INSTRUMENT	HP4284 / CH16502 Equality
PRODUCT	SMD Inductor	TEST FREQUENCY	100 kHz / 1.0V

CUSTOMER :**CUSTOMER P/N :****DESCRIPTION : SMD INDUCTOR****SINKA P/N : Tmpa2313SP-SERIES****REVISION NO. : 01****DATE : 2020/5/17****NOTES : STANDARD**

DOCUMENTED BY	
APPROVED	Y Imai
CHECKED	Cosby Liu
PREPARED	Wenny Wei

CUSTOMER APPROVAL

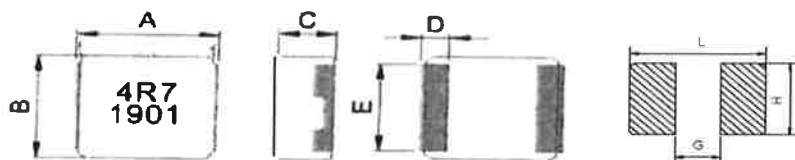
company seals

COIL SPECIFICATION

**RoHS
COMPLIANT**

ITEM P/N	TPMA2313SP-SERIES	TEST INSTRUMENT	HP4284 / CH16502 Equality
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PACKING DIMENSIONS (mm)

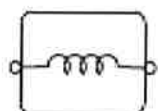


TPMA 2313	Dimensions
A	23.5 ± 0.5
B	22.0 ± 0.3
C	12.6 ± 0.4
D	5.0 ± 0.4
E	19.0 ± 0.3
L	24 Typ
G	12.5 Typ
H	19.6 Typ

EXPLANATION OF PART NUMBERS

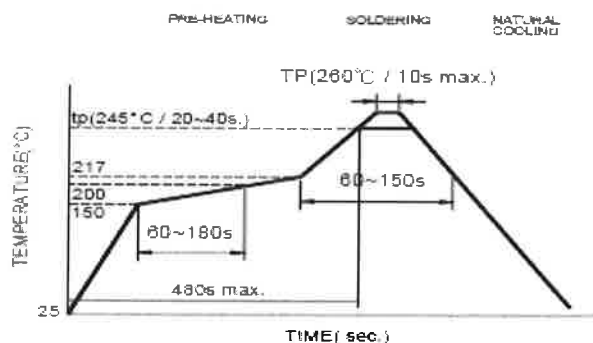
1	2	3	4	5	6	7	8	9	10	11	12		
T	M	P	A	-	2	3	1	3SP	-	4	R	7	M
Serial Codes			Size				Inductance Code						

CONNECTIONS



- ⊙ Inductor Contents ONE (1) Set(s) of Coil
- ⊙ DC/AC Current Shall Be Introduced By Any One of Two Pads

RECOMMENDED SOLDERING TEMP. GRAPH



Reflow times: 3 times max.

Manual Soldering for rework

Solder Iron Temperature : 350 °Cmax
 Soldering Times : Less than 5sec
 (Manual Soldering is 1 time only)

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AUDIX®
SINKA JAPAN CO.,LTD

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ELECTRICAL CHARACTERISTICS

P/N	L0 Inductance $\mu\text{H} \pm 20\%$ @0A	DCR (m Ω)		Heat Rating Current Idc (AMP)	Saturation Current Isat (AMP)
		[Typical]	[Max]	Typ	Typ
TPMA2313SP-1R5MN-D	1.5	1.00	1.15	52	62
TPMA2313SP-2R0MN-D	2.0	1.02	1.20	50	60
TPMA2313SP-2R2MN-D	2.2	1.05	1.25	48	58
TPMA2313SP-3R0MN-D	3.0	1.42	1.64	44	51
TPMA2313SP-3R3MN-D	3.3	1.50	1.75	41	49
TPMA2313SP-4R7MN-D	4.7	1.9	2.2	38	47
TPMA2313SP-6R8MN-D	6.8	2.7	3.1	36	40
TPMA2313SP-100MN-D	10	3.8	4.15	28	33
TPMA2313SP-220MN-D	22	9.2	11.0	15	22
TPMA2313SP-230MN-D	23	9.2	11.0	15	22
TPMA2313SP-330MN-D	33	13.5	15.4	12	29
TPMA2313SP-470MN-D	47	17.3	20.8	12	17
TPMA2313SP-680MN-D	68	26.2	29.5	12	14
TPMA2313SP-750MN-D	75	27.5	31.6	10.5	13
TPMA2313SP-820MN-D	82	31	34.2	9	12
TPMA2313SP-101MN-D	100	36	40	9	11

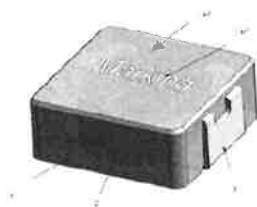
Note:

1. Test frequency : L : 100KHz / 1.0V.
2. All test data referenced to 25°C ambient.
3. Testing Instrument L: HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER / Rdc: CH16502, Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately Δt of 40°C (keep 1min.).
5. Saturation Current (Isat) will cause L0 to drop 20% typical. (keep quickly).
6. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

Storage Condition

Temperature : 0 ~ 40°C

Humidity : 20~65%RH

Marking

Marking showed inductance value

2R2 = Inductance (2.2uH)

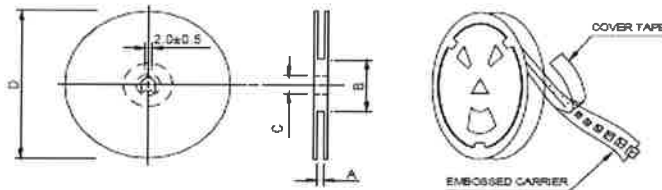
1150 = Date Code

11 = Years (2011)

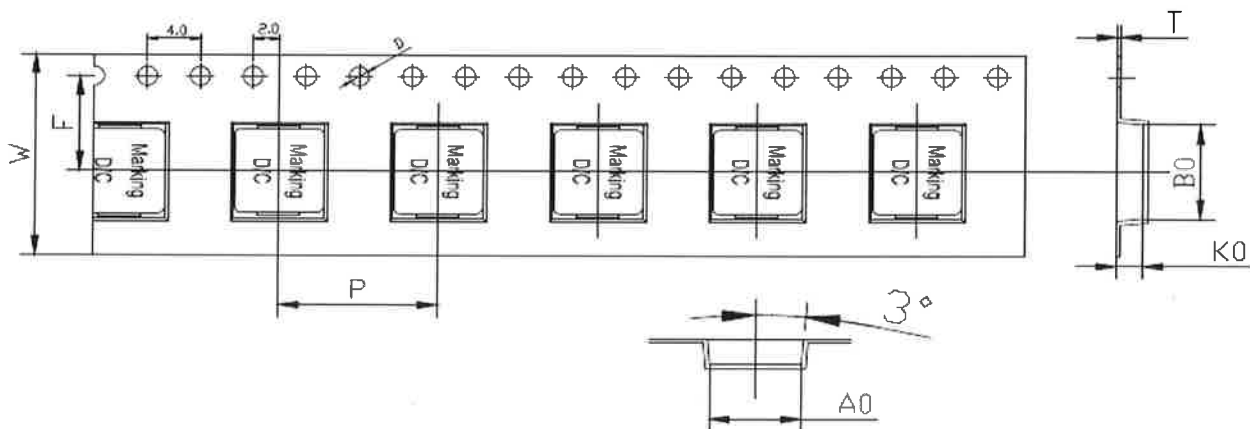
50 = Weeks

Structure

NO	Items	Materials
1	Core	Alloy Powder
2	Wire	Polyester Wire or equivalent.
3	Solder Plating	100% Pb free solder
4	paint	Epoxy resin
5	Ink	Halogen-free ketone

ITEM P/N**TPMA2313SP-SERIES****TEST INSTRUMENT****HP4284 / CH16502 Equality****PRODUCT****SMD Inductor****TEST FREQUENCY****100 kHz / 1.0V****PACKING INFORMATION****(1) Reel Dimension**

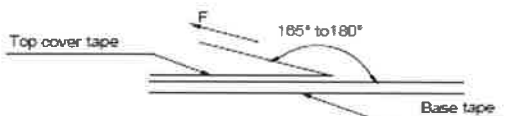
Type	A(mm)	B(mm)	C(mm)	D(mm)
13"x16mm	16.4±2/-0	100±2	13.5±0.5	330

(2) Tape Dimension

Series	Size	Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	W(mm)	F(mm)	T(mm)	D(mm)
TPMA	2313	25±0.1	23.0±0.1	13.6±0.1	32±0.1	44±0.3	20.2±0.1	0.5±0.05	1.5±0.1

(3) Packaging Quantity

TPMC	0605
Chip / Reel	80
Inner box	80
Carton	320

(4) Tearing Off Force

The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions(referenced ANSI/EIA-481-C-2003 of 4.11 standard).

Room Temp. (°C)	Room Humidity (%)	Room atm (hPa)	Tearing Speed mm/min
5~35	45~85	860~1060	300

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