

ITEM P/N	TPMA0604S-SERIES	TEST INSTRUMENT	HP4284 / CH16502 Equality
PRODUCT	SMD Inductor	TEST FREQUENCY	100 kHz / 1.0V

**CUSTOMER :**

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**DESCRIPTION :** SMD INDUCTOR

**SINKA P/N :** Tmpa0604s-series

**REVISION NO. :** 01

**DATE :** 2020/5/17

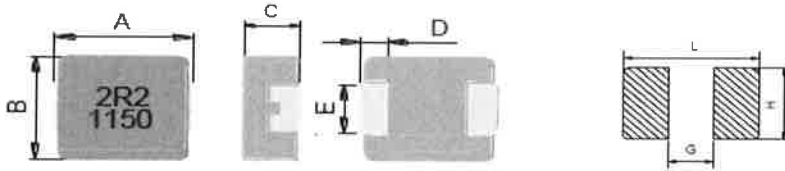
**NOTES :** STANDARD

DOCUMENTED BY	
APPROVED	Y Imai
CHECKED	Cosby Liu
PREPARED	Wenny Wei

**CUSTOMER APPROVAL**

company seals

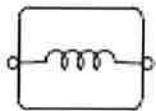
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**PACKING DIMENSIONS (mm)**

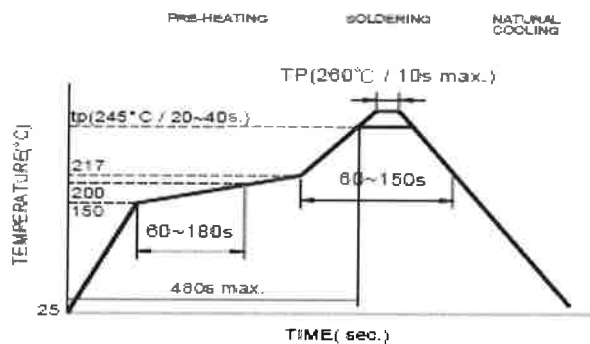
TMPA 0604	Dimensions
A	7.3 ± 0.3
B	6.6 ± 0.3
C	3.8 ± 0.2
D	1.6 ± 0.3
E	3.0 ± 0.3
L	8.0 Typ
G	3.5 Typ
H	3.4 Typ

**EXPLANATION OF PART NUMBERS**

1	2	3	4	5	6	7	8	9	10	11	12
T	M	P	A	0	6	0	4S	R	4	7	M
<b>Serial Codes</b>				<b>Size</b>		<b>Inductance Code</b>					

**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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**ELECTRICAL CHARACTERISTICS**

P/N	L0 Inductance $\mu\text{H} \pm 20\%$ @0A	DCR (m $\Omega$ )		Heat Rating Current	Saturation Current
		[Typical]	[Max]	I <sub>dc</sub> (AMP) Typ	I <sub>sat</sub> (AMP) Typ
TMPA0604S-R15MN-D	0.15	1.4	1.68	45	35
TMPA0604S-R33MN-D	0.33	2.2	2.5	28	25
TMPA0604S-R45MN-D	0.45	2.8	3.2	21	20
TMPA0604S-R56MN-D	0.56	3.4	3.7	20	19
TMPA0604S-1R0MN-D	1.00	5.6	6.2	15	15

## 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 (I<sub>rms</sub>) will cause the coil temperature rise approximately  $\Delta t$  of 40°C (keep 1min.).
5. Saturation Current (I<sub>sat</sub>) 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 inquires besides the above common used types can be met on your requirement.

**Storage Condition**

Temperature : 0 ~ 40°C

Humidity : 20~65%RH

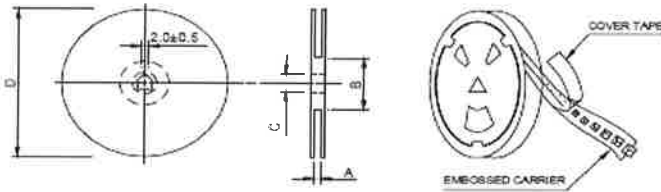
**Marking**

Marking showed inductance value  
 2R2 = Inductance ( 2.2uH)  
 1150 = Date Code  
 11 = Years ( 2011 )  
 50 = Weeks

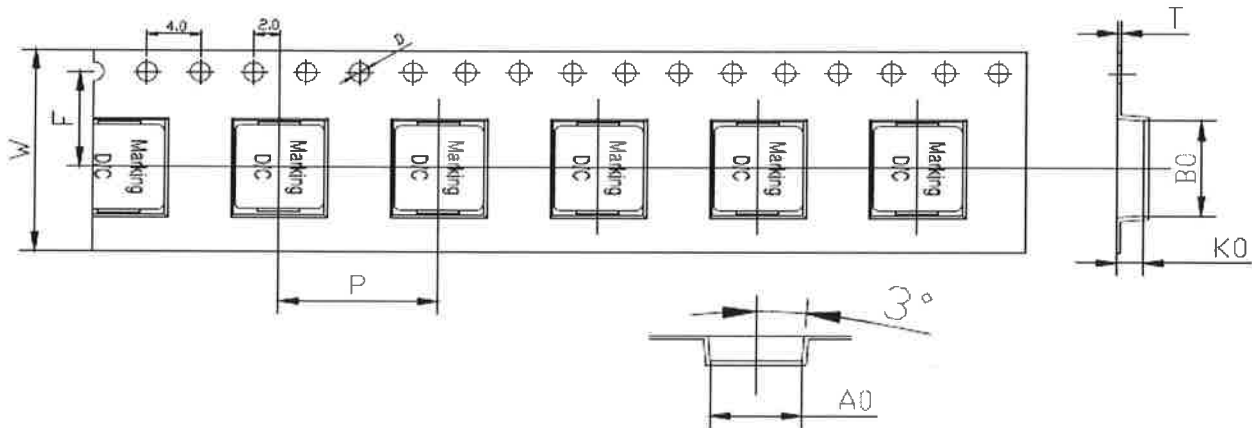
**Structure**

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

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**PACKING INFORMATION****(1) Reel Dimension**

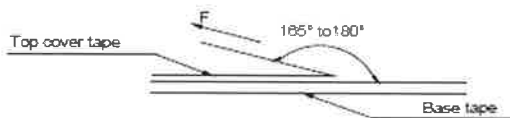
Type	A(mm)	B(mm)	C(mm)	D(mm)
13"x16mm	16.4±2/0	100±2	13.5±0.5	330

**(2) Tape Dimension**

Series	Size	Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	W(mm)	F(mm)	t(mm)	D(mm)
TMPA	0604	7.7±0.1	7.0±0.1	5.3±0.1	12.0±0.1	16±0.3	7.6±0.1	0.35±0.05	1.5±0.1

**(3) Packaging Quantity**

TMPC	0605
Chip / Reel	800
Inner box	1600
Carton	6400

**(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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