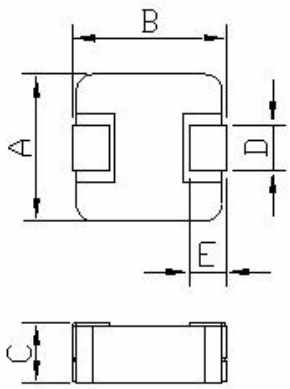
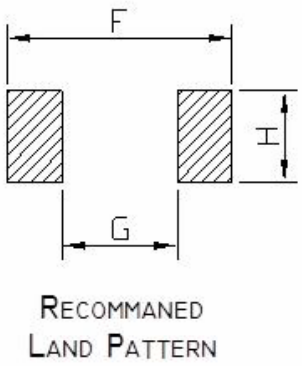
程智科技股份有限公司 Compliance Certification Services Inc.	SPECIFICATION FOR APPROVAL	
	PART	CSHF-0603T-150M
	VERSION	A
	PAGE	1

COIL SPECIFICATION

ITEM P/N	CSHF-0603T-150M	TEST INSTRUMENT	Zentech-3305 / Zentech502BC
PRODUCT	SMD Inductor	TEST FREQUENCY	100 kHz / 1.0V

PACKING DIMENSIONS (mm)





CSHF-0603T-100M	Dimensions
A	6.6 ± 0.3
B	7.1 ± 0.3
C	3.0 MAX
D	3.0 ± 0.3
E	1.6 ± 0.5
F	7.4 Typ
G	3.7 Typ
H	3.5 Typ

ELECTRICAL CHARACTERISTICS

ITEM P/N	@ 26 ℃ Ambient Temperture				DCR mΩ @ 25℃ Typical	DCR mΩ @ 25℃ MAX
	INDUCTANCE		Typical Heat Rating DC Current (A) (Idc)	Typical Saturation DC Current (A) (Isat)		
	Lo (μH)	TOLERANCE				
CSHF-0603T-150M	15	±20%	3.5	3.0	110.0	125.0

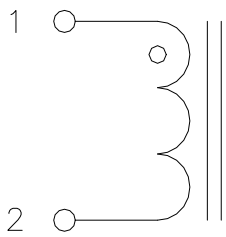
- All test Data is referenced to 25℃ ambient
- Typical Heat Rating DC Current would cause an approximately △T of 40℃
- Typical Saturation DC Current would cause Lo to drop within 30%
- Operation Temperature Range : -55℃ ~ 125℃
- The Part temperature (ambient + △T) should not exceed 125℃ under worst case operating conditions.
- Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all effect the part temperature. Part temperature should be verified in the end application.

RoHS

CHARACTERISTICS

ITEM P/N	CSHF-0603T-150M	TEST INSTRUMENT	Zentech-3305 / Zentech502BC
PRODUCT	SMD Inductor	TEST FREQUENCY	100 kHz / 1.0V

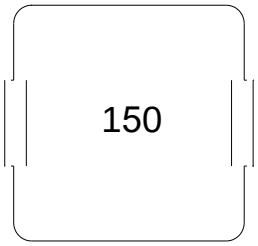
CONNECTIONS



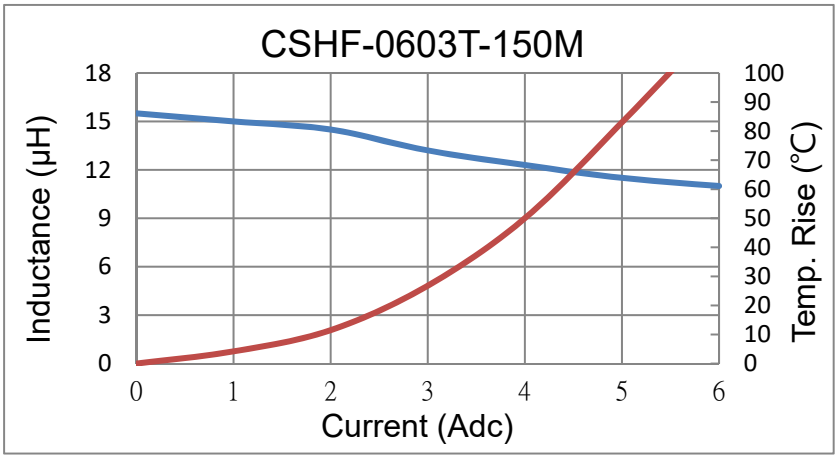
◎ Inductor Contents ONE (1) Set(s) of Coil

◎ DC/AC Currnet Shall Be Introduced By Any One of Two Pads

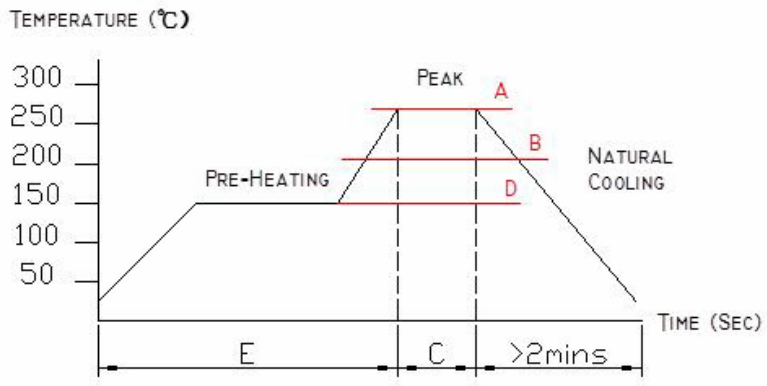
MARKING



PERFORMANCE CURVES



RECOMMENDED SOLDERING TEMP. GRAPH



A	260℃
B	230℃
C	10 Sec
D	150℃
E	60~240 Sec

CHARACTERISTICS

ITEM P/N	**CSHF-0603T-150M**	**TEST INSTRUMENT**	**Zentech-3305 / Zentech502BC**
PRODUCT	**SMD Inductor**	**TEST FREQUENCY**	**100 kHz / 1.0V**

MECHANICAL RELIABILITY

TEST	Specification & Requirement	Method Used
Solderability	The surface of terminal/pin tested shall be covered with new solder by 95%	Solder heat proof: Preheating: 180 ±10℃ 90 seconds Soldering: 255 ±5℃ for 3 ±1 sec
Shock	Inductance change within ± 5% Without mechanical damage	Drop down with 981m/s2 (100G) shock Attitude upon a rubber block method shock testing machinem, 3 tests.
Vibration	Inductance change within ± 5% Without mechanical damage	Vibration frequency: 10Hz to 55Hz to 10Hz 60 seconds cycle Vibration time: 2 hours

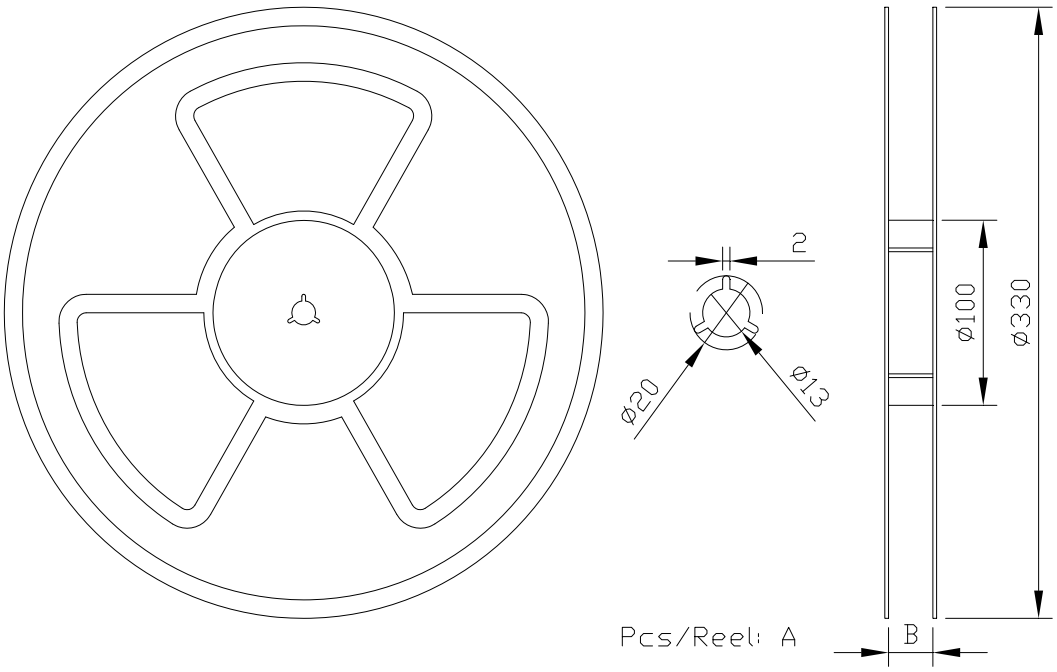
ENDURANCE RELIABILITY

TEST	Specification & Requirement	Method Used
Thermal Shock	Inductance change within ± 5% Without mechanical damage	-25℃, (30 mins) -> room temp. (5 mins) -> 125℃, (30 mins) -> room temp. (5 mins) 100 cycles
Heat Resistance	Inductance change within ± 5% Without mechanical damage	Apply IDC current @ 85℃ ambient Duration: 1000 hrs
Humidity Resistance	Inductance change within ± 5% Without mechanical damage	Apply IDC current @ 60℃ ambient Humidity: 90~95% Duration: 1000 hrs
Low Temp. Storing	Inductance change within ± 5% Without mechanical damage	Storing Temp. -25 ±2 ℃ for total 1,000 +4/-0 hours
High Temp. Storing	Inductance change within ± 5% Without mechanical damage	Storing Temp. 125 ±2 ℃ for total 1,000 +4/-0 hours

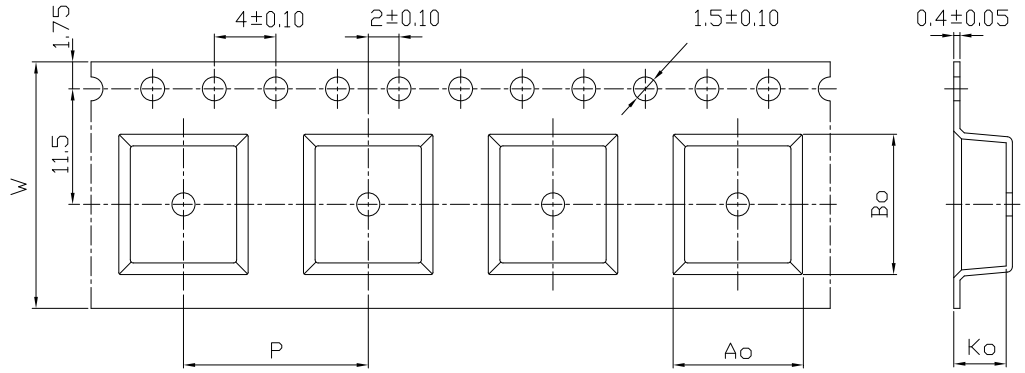
PACKING FOR SMD

ITEM P/N	CSHF-0603T-150M	TEST INSTRUMENT	Zentech-3305 / Zentech502BC
PRODUCT	SMD Inductor	TEST FREQUENCY	100 kHz / 1.0V

CARRIERTAPEING REEL & CARRIER MATERIALS (PAPER PLASTICS) UNIT : (mm)



A	B	Ao	Bo	Ko
1000	17	6.9 ± 0.1	7.6 ± 0.1	3.4 ± 0.1



W	P
16	12

Typical Pulling Force:

10 grams