Version: 1.0

SPECIFICATION FOR APPROVAL

RoHS COMPLIANT

ITEM P/N	PSPMAF0615-1R0M-CGF-AP	TEST INSTRUMENT	Zentech-3305 / Zentech502BC
PRODUCT	SMD Inductor	TEST FREQUENCY	100 kHz / 1.0V

CUSTOMER :

CUSTOMER P/N :

DESCRIPTION : SMD INDUCTOR

P/N : PSPMAF0615-1R0M-CGF-AP

REVISION NO. : Version: 1.0

DATE : 2016-1-13

NOTES : STANDARD

DOCUMENTED	
APPROVED	Kevin
CHECKED	Peter
PREPARED	Ben

CUSTOMER APPROVAL

company seals

Version: 2.0

SPECIFICATION FOR APPROVAL

RoHS COMPLIANT

ITEM P/N	PSPMAF0615-1R0M-CGF-AP	TEST INSTRUMENT	Zentech-3305 / Zentech502BC
PRODUCT	SMD Inductor	TEST FREQUENCY	100 kHz / 1.0V

Version	REVISON ITEM	BEFORE REVISON	AFTER REVISON	DATE
1.0	First Version			2016-1-13

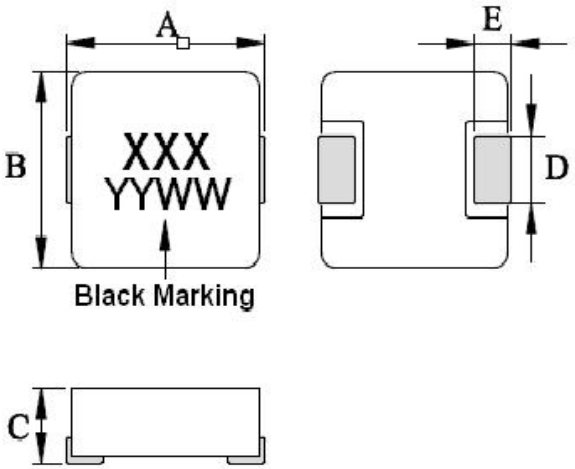
Version: 1.0

COIL SPECIFICATION

RoHS COMPLIANT

ITEM P/N	PSPMAF0615-1R0M-CGF-AP	TEST INSTRUMENT	Zentech-3305 / Zentech502BC
PRODUCT	SMD Inductor	TEST FREQUENCY	100 kHz / 1.0V

PACKING DIMENSIONS (mm)



0615	Dimensions
A	7.0±0.5
B	6.6±0.3
C	1.3±0.2
D	3.0±0.3
E	1.8±0.5

EXPLANATION OF PART NUMBERS

PSPMAF	0615	-	1R0M	-	CGF-AP
Serial Codes	Size		Inductance Code		Description

ELECTRICAL CHARACTERISTICS

ITEM P/N	@ 25 ℃ Ambient Temperture				
	INDUCTANCE		Typical Heat Rating DC Current (A) (Idc)	Typical Saturation DC Current (A) (Isat)	DCR (mΩ) Max.
	Lo (μH)	TOLERANCE			
PSPMAF0615-1R0M-CGF-AP	1.00	±20%	8.3	10	20.0

- 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 approximately 35%
- 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.

PROD TECHNOLOGY CO., LTD.

E-LIVEN TECHNOLOGY CO., LTD.
NO.28 HO-CHENG RD, BADE CITY, TAOYUAN, TAIWAN

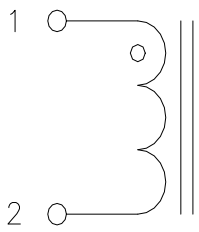
Version: 1.0

CHARACTERISTICS

RoHS COMPLIANT

ITEM P/N	PSPMAF0615-1R0M-CGF-AP	TEST INSTRUMENT	Zentech-3305 / Zentech502BC
PRODUCT	SMD Inductor	TEST FREQUENCY	100 kHz / 1.0V

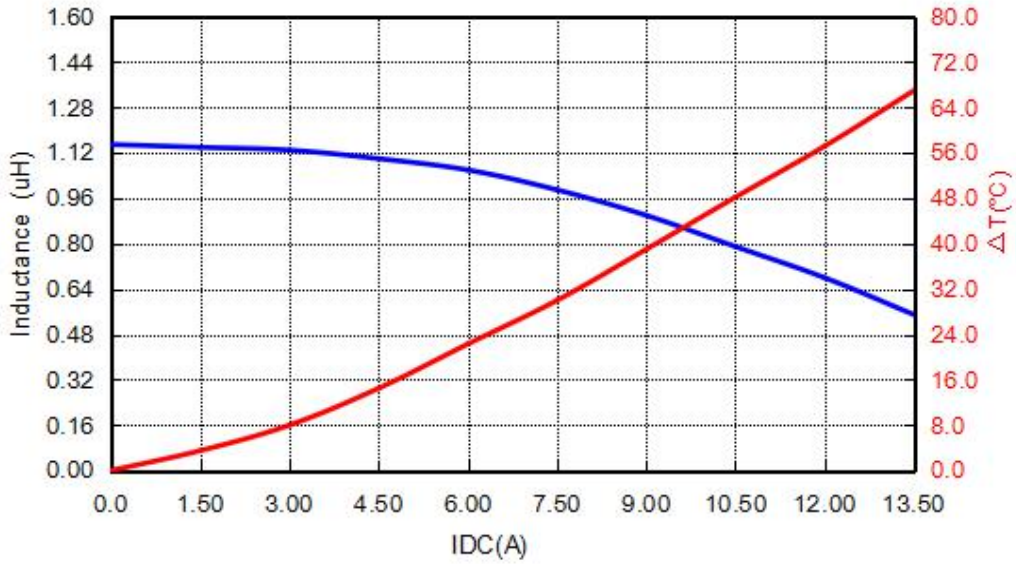
CONNECTIONS



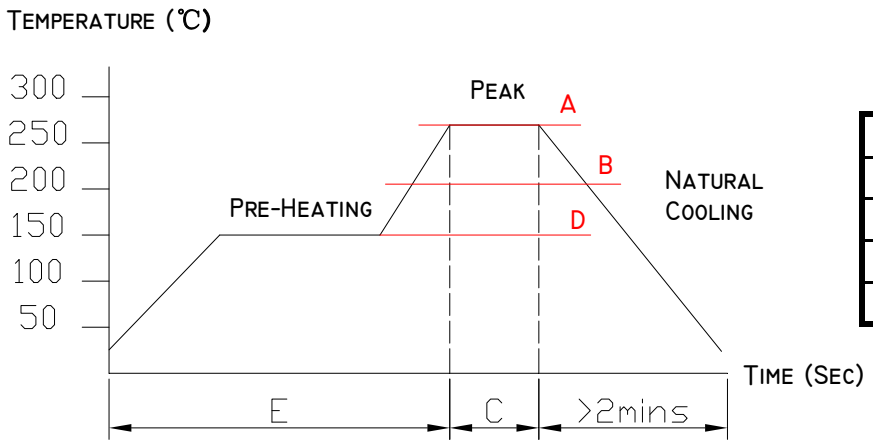
◎ Inductor Contents ONE (1) Set(s) of Coil

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

PERFORMANCE CURVES



RECOMMENDED SOLDERING TEMP. GRAPH



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

Version: 1.0

CHARACTERISTICS

RoHS COMPLIANT

ITEM P/N	PSPMAF0615-1R0M-CGF-AP	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

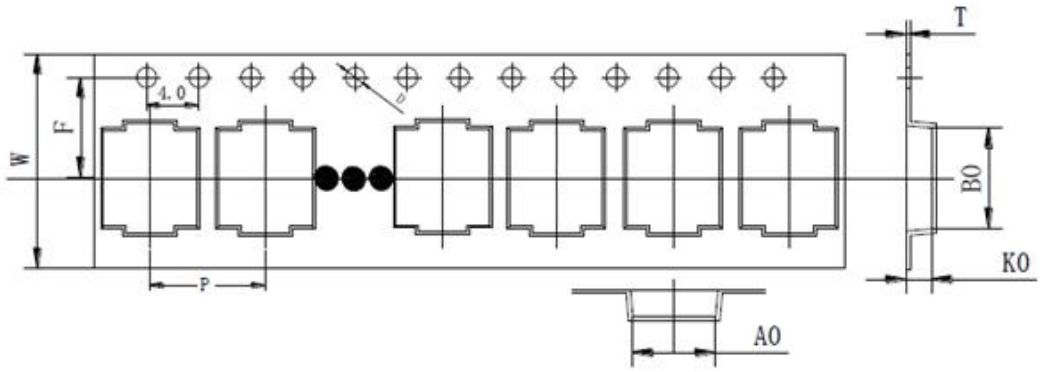
Version: 1.0

PACKING FOR SMD

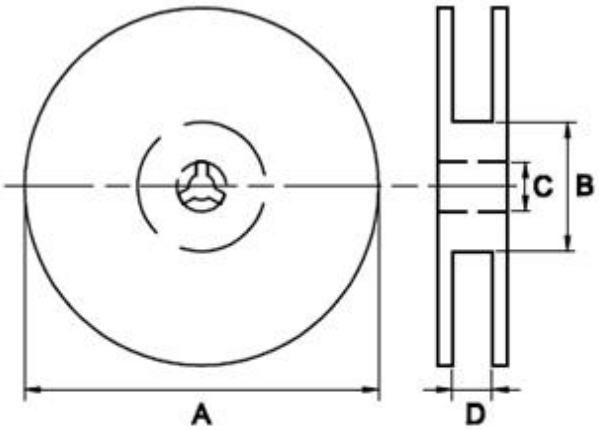
RoHS COMPLIANT

ITEM P/N	PSPMAF0615-1R0M-CGF-AP	TEST INSTRUMENT	Zentech-3305 / Zentech502BC
PRODUCT	SMD Inductor	TEST FREQUENCY	100 kHz / 1.0V

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



Type	A_0	B_0	K_0	P	F	W	D	T
0615HG	7.0±0.1	7.7±0.1	1.8±0.1	12±0.1	7.5±0.1	16±0.3	1.5±0.1	0.35±0.05



Unit: mm

Type	A	B	C	D
0615HG	330	100±2	13.0±0.5	16.4+2-0

Standard Quantity for Packaging: 2000 pcs/Reel

Version: 1.0

TESTING REPORT

RoHS COMPLIANT

ITEM P/N	PSPMAF0615-1R0M-CGF-AP	TEST INSTRUMENT	Zentech-3305 / Zentech502BC
PRODUCT	SMD Inductor	TEST FREQUENCY	100 kHz / 1.0V

TEST DATA

SPEC / No.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)		DCR	INDUCTANCE	
							Max(mΩ)	L(0) ± 20%	10 A
	7.0±0.5	**6.6±0.3**	**1.3±0.2**	**3.0±0.3**	**1.8±0.5**		**20**	**1.00**	**≈65% L(0)**
1	7.22	6.62	1.32	2.91	1.65		17.5	1.12	PASS
2	7.25	6.65	1.33	2.96	1.64		16.5	1.13	PASS
3	7.18	6.68	1.35	2.95	1.68		17.4	1.02	PASS
4	7.15	6.65	1.34	2.91	1.63		18.4	0.99	PASS
5	7.21	6.64	1.32	2.93	1.64		18.6	0.98	PASS
6	7.24	6.66	1.32	2.96	1.68		18.4	1.06	PASS
7	7.16	6.68	1.33	2.91	1.69		17.2	1.04	PASS
8	7.22	6.65	1.33	2.92	1.62		17.5	0.96	PASS
9	7.31	6.68	1.35	2.94	1.64		18.6	0.95	PASS
10	7.23	6.65	1.32	2.91	1.69		17.9	0.98	PASS
$\bar{X}$	7.22	6.66	1.33	2.93	1.66		17.80	1.02	
R	0.16	0.06	0.03	0.05	0.07		2.10	0.18	

◎ All test Data is referenced to 25℃ ambient

注意事項
ANNOUNCEMENTS

使用本产品时，请注意以下事项

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3 航空，航天設備
4 發電控制設備
5 核動力相關設備
6 爆炸引燃控制設備
7 交通控制設備
8 關係到國防安全的設備
9 防災賑災設備
10 各自安規設備
11 緊急救護設備
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