Version:1.0 SPECIFICATION FOR APPROVAL



ITEM P/N	PSPMAQ0605H-470M-ANP	TEST INSTRUMENT	Zentech-3305 / Zentech502BC
PRODUCT	SMD INDUCTOR	TEST FREQUENCY	100 kHz / 1.0V

CUSTOMER :

CUSTOMER P/N:

DESCRIPTION: SMD INDUCTOR

P/N : PSPMAQ0605H-470M-ANP

REVISION NO.: Version: 1.0

DATE : 2019-9-24

NOTES : STANDARD

DOCUMENTED			
APPROVED Yuki			
CHECKED	Ben		
PREPARED	Peter		

CUSTOMER APPROVAL

company seals



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SPECIFICATION FOR APPROVAL



ITEM P/N	PSPMAQ0605H-470M-ANP	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			2019-9-24





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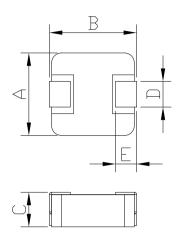


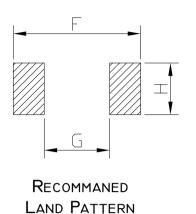
COIL SPECIFICATION



ITEM P/N	PSPMAQ0605H-470M-ANP	TEST INSTRUMENT	Zentech-3305 / Zentech502BC
PRODUCT	SMD INDUCTOR	TEST FREQUENCY	100 kHz / 1.0V

PACKING DIMENSIONS (mm)





0605H	Dimensions
А	6.6 ± 0.3
В	7.1 ± 0.5
С	5.0MAX
D	3.0 ± 0.3
Е	1.6 ± 0.3
F	7.80Ref.
G	2.40Ref.
Н	3.50Ref.

EXPLANATION OF PART NUMBERS

PSPMAQ	0605H	-	470M	-	ANP
Serial Codes	<u>Size</u>	<u>Inductance</u> <u>Des</u>		<u>Description</u>	
			<u>Code</u>		

ELECTRICAL CHARACTERISTICS

		Ambient Temperture				
ITEM P/N	INDUCTANCE		Irms	Isat	DCR (mΩ)	DCR
	Lo (μH)	TOLERANCE (A)Max.	(A) Max.	Typical	(mΩ) Max.	
PSPMAQ06 05H-470M- ANP	47.00	±20%	2.0	2.5	180.0	210.0

- $\ \, \ \, \ \,$ Typical Heat Rating DC Current would cause an approximately $\triangle T$ of 40%
- Typical Saturation DC Current would cause Lo to drop approximately 35%
- © Operation Temperature Range : -40° C ~ 125° C
- The Part temperature (ambient + △T) should not exceed 125°C 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.

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Version: 1.0 CHARACTERISTICS



ITEM P/N	PSPMAQ0605H-470M-ANP	TEST INSTRUMENT	Zentech-3305 / Zentech502BC
PRODUCT	SMD INDUCTOR	TEST FREQUENCY	100 kHz / 1.0V

Schematic Diagram:

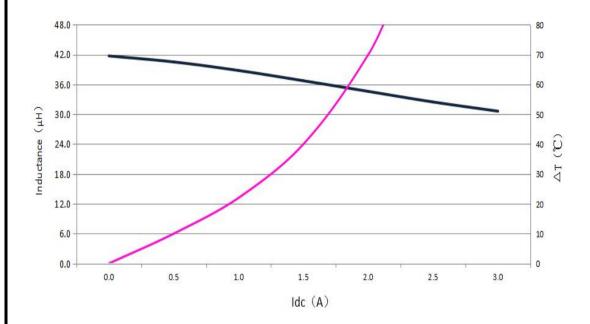




470

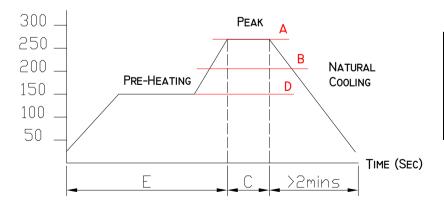
- DC/AC Currnet Shall Be Introduced By Any One of Two Pads

PERFORMANCE CURVES:



RECOMMENDED SOLDERING TEMP. GRAPH

TEMPERATURE (°C)



Α	260 ℃
В	230 ℃
С	10 Sec
D	150°C
Ε	60~240 Sec

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Version: 1.0	CHARACTERISTICS (EX.)			
ITEM P/N	PSPMAQ0605H-470M-ANP	TEST INSTRUMENT	Zentech-3305 / Zentech502BC	
PRODUCT	SMD INDUCTOR	TEST FREQUENCY	100 kHz / 1.0V	

MECHANICAL RELIABILITY

TEST	Specification & Requirement	Method Used
	The surface of terminal/pin tested shall	Solder heat proof:
Solderability	be covered with new solder by 95%	Preheating: 180 ±10°C 90 seconds
		Soldering: 255 ±5°C for 3 ±1 sec
	Inductance change within ± 5% Without	Drop down with 981m/s2 (100G) shock
Shock	mechanical damage	Attitude upon a rubber block method shock
		testing machinem, 3 tests.
	Inductance change within ± 5% Without	Vibration frequency:
Vibration	mechanical damage	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	-25°C, (30 mins) -> room temp. (5 mins) ->		
	mechanical damage	125 °C, (30 mins) → room temp. (5 mins)		
SHOCK		100 cycles		
Heat	Inductance change within ± 5% Without	Apply IDC current @ 85℃ ambient		
Resistance	mechanical damage			
		Duration: 1000 hrs		
Humidity	Inductance change within ± 5% Without	Apply IDC current @ 60°C ambient		
Resistance	mechanical damage	Humidity: 90~95%		
110010101100		Duration: 1000 hrs		
Low Temp.	Inductance change within ± 5% Without	Storing Temp.		
Storing	mechanical damage	-25 ±2 °C for total 1,000 +4/-0 hours		
Storing				
High Temp. Storing	Inductance change within ± 5% Without	Storing Temp.		
	mechanical damage	125 ±2 °C for total 1,000 +4/-0 hours		

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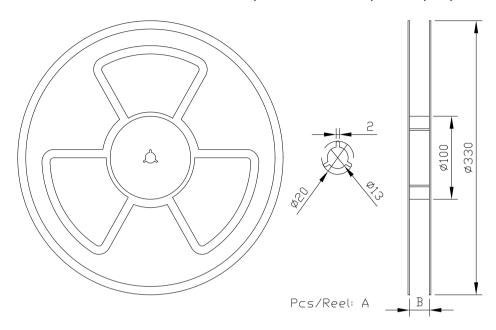


PACKING FOR SMD

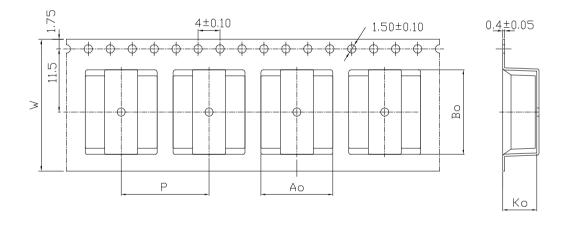


ITEM P/N	ITEM P/N PSPMAQ0605H-470M-ANP		Zentech-3305 / Zentech502BC	
PRODUCT	SMD INDUCTOR	TEST FREQUENCY	100 kHz / 1.0V	

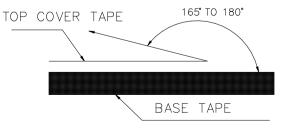
CARRIERTAPEING REEL & CARRIER MATERIALS (PAPER PLASTICS) UNIT: (mm)



Α	В	W	Р	Ao	Во	Ko
800	17	16	12	6.9±0.1	7.6 ± 0.1	5.4Typ



Typical Pulling Force: 10 grams



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TESTING REPORT



ITEM P/N	ITEM P/N PSPMAQ0605H-470M-ANP		Zentech-3305 / Zentech502BC	
PRODUCT	SMD INDUCTOR	TEST FREQUENCY	100 kHz / 1.0V	

TEST DATA

SPEC	Α	В	С	D	Е	DCR	INDUC	TANCE
	(mm)	(mm)	(mm)	(mm)	(mm)	Max(mΩ)	L(0)±20%	2.5 A
No.	6.6 ± 0.3	7.1 ± 0.5	5.0MAX	3.0 ± 0.3	1.6 ± 0.3	210	47.00	≈65% L(0)
1	6.59	7.31	4.94	3.03	1.61	198.00	42.68	PASS
2	6.59	7.31	4.88	3.01	1.59	199.00	44.58	PASS
3	6.58	7.24	4.85	3.02	1.61	198.00	42.95	PASS
4	6.59	7.27	4.89	3.02	1.65	199.00	42.66	PASS
5	6.58	7.25	4.94	3.01	1.62	198.00	42.78	PASS
6	6.59	7.27	4.88	3.01	1.62	198.00	43.55	PASS
7	6.59	7.29	4.85	3.01	1.62	200.00	43.47	PASS
8	6.59	7.28	4.92	3.02	1.63	198.00	42.90	PASS
9	6.59	7.26	4.92	3.01	1.55	198.00	42.98	PASS
10	6.58	7.29	4.86	3.02	1.61	199.00	46.57	PASS
X	6.59	7.28	4.89	3.02	1.61	198.50	43.51	
R	0.01	0.07	0.09	0.02	0.10	2.00	3.91	









ANNOUNCEMENTS

产品注意事项

使用本产品时,请注意以下事项

- ◎ 产品保存期限为12个月,保存条件:温度5~40℃,湿度10~80%RH以内,超过保存期限可能会使产品端子电极发生氧化。
- © 请勿在极端环境下使用和保存(高盐,强酸,强碱,强辐射等)。
- ◎ 产品焊接前,请进行预热;预热温度与焊接温度之间温差建议控制在150℃以内。
- 产品焊接后需重新拆卸焊接修正时,请遵循规格书规定的条件范围;过高的加热温度以及反复的拆卸可能会导致产品失效。
- 产品焊接到线路板后,请注意不可因线路板整体变形或局部变形而施加给电感剩余应力,这可能会导致电感发生破裂,脱落,以致失效。
- ◎ 产品请勿接触清洗剂,酒精等液体,这会侵蚀产品本体,从而导致产品失效。
- ◎ 产品通电后温度会随电流的增大而上升,设计时请务必考虑留有余量。
- © 过高的静电会对产品产生永久性损害,请注意静电防护。
- ◎ 产品通电过程请勿触摸产品任何部位, 防止触电。
- 本产品作为磁性产品,设计时请务必考虑周边元器件与本产品可能产生的相互影响。
- © 本产品适用于一般电子设备,如: AV设备,通信设备,家电产品,娱乐设备,计算机设备,个人设备,办公设备,计测设备,工业机器人等。且该一般电子设备需在常规的操作和使用方法环境下使用。对于需要高度安全性和可靠性的,或者因本产品失效造成设备故障,误操作,运转不良等危及到人的生命身体及财产安全,以及对社会产生较大不良影响的特殊用途,设计使用前务必同本公司沟通,设计使用者如在未取得我司书面同意状况下使用造成任何后果,我司不予承担。特殊用途包含但不限定如下清单:
 - 1 军用设备
 - 2 运输设备(汽车,轨道交通产品,船舶等)
 - 3 航空, 航天设备
 - 4 发电控制设备
 - 5 核动力相关设备
 - 6 爆炸引燃控制设备
 - 7 交通控制设备

- 8 关系到国防安全的设备
- 9 防灾赈灾设备
- 10 各种安规设备
- 11 紧急救护设备
- 12 其他被认定为特殊用途的设备

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