

產品編碼 P/N	PSPCAQ32~105 series	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	贴片组装电感	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

客戶名稱 :
 Customer :
 客戶編碼 :
 Customer P/N :
 產品系列 : 贴片组装电感
 Series : SMD CDH Power Inductor
 產品編碼 : PSPCAQ32~105 series
 Supply P/N :
 發版號 : A3.0
 Version :
 承認日期 : 2021-5-17
 Endorsement Date :
 備註 :
 Note :

譜羅德電子科技（深圳）有限公司 PROD Electronic Technology (Shenzhen) Co. LTD	
製作 APPROVED	Ben
審查 CHECKED	Yuki
確認 PREPARED	Peter

客戶承認 Customer Approval

客戶簽章



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編碼解釋

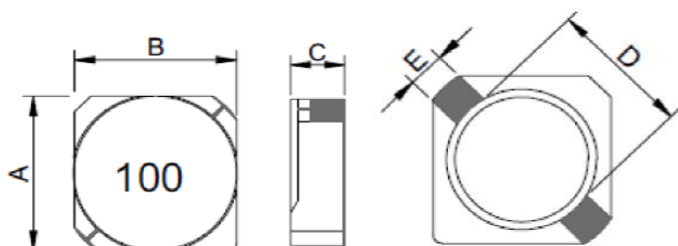
Code interpretation

P S P H A Q	5 D 1 8	1 R 0	-	M
類別碼	尺寸系列	系列碼		公差
Category code	Dimension	Inductance		Tolerance

封裝尺寸

Dimension (mm)

PSPHAQ2D11~3D28尺寸图

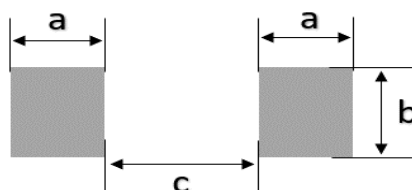


PSPHAQ73/74124/125/127/129尺寸图



推薦的焊盤尺寸

Recommened Land Pattern



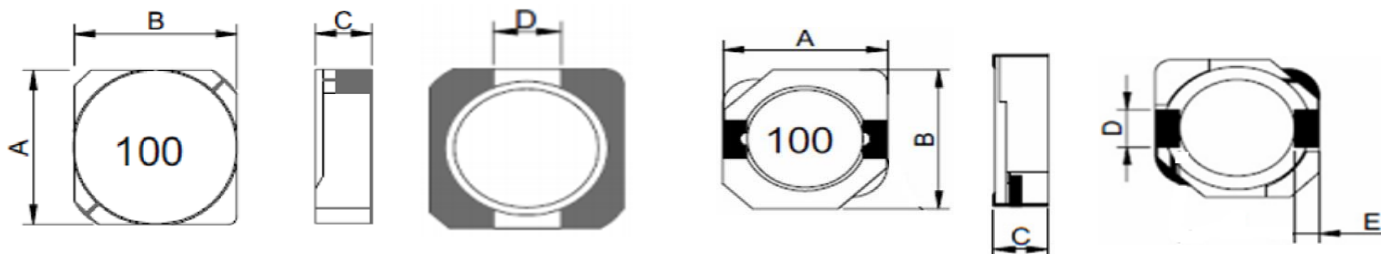
系列 Series	封裝尺寸 Dimension					焊盤尺寸 Land Pattern			最小包裝 MPQ
	A	B	C	D	E	a	b	c	
2D11	3.2 Max.	3.2 Max.	1.3 Max.	2.1 Typ.	1.0 Typ.	1.3 Typ	1.3 Typ	1.7 Typ	3000pcs/卷盘
2D14	3.2 Max.	3.2 Max.	1.6 Max.	2.1 Typ.	1.0 Typ.	1.3 Typ	1.3 Typ	1.7 Typ	3000pcs/卷盘
2D18	3.2 Max.	3.2 Max.	2.0 Max.	2.1 Typ.	1.0 Typ.	1.3 Typ	1.3 Typ	1.7 Typ	3000pcs/卷盘
3D16	4.0 Max.	4.0 Max.	1.9 Max.	2.8 Typ.	1.1 Typ.	1.4 Typ	1.5 Typ	2.4 Typ	3000pcs/卷盘
3D28	4.0 Max.	4.0 Max.	2.0 Max.	2.8 Typ.	1.1 Typ.	1.4 Typ	1.5 Typ	2.4 Typ	3000pcs/卷盘
CDH73	7.3±0.3	7.3±0.3	3.5 Max.	1.8±0.2	5.0±0.2	2.1 Typ	2.1 Typ	3.5 Typ	1000pcs/卷盘
CDH74	7.3±0.3	7.3±0.3	4.5 Max.	1.8±0.2	5.0±0.2	2.1 Typ	2.1 Typ	3.5 Typ	1000pcs/卷盘
CDH124	12.0±0.3	12.0±0.3	5.0 Max.	5.0±0.2	7.6±0.2	2.9 Typ	5.9 Typ	7.0 Typ	500pcs/卷盘
CDH125	12.0±0.3	12.0±0.3	6.0 Max.	5.0±0.2	7.6±0.2	2.9 Typ	5.9 Typ	7.0 Typ	500pcs/卷盘
CDH127	12.0±0.3	12.0±0.3	8.0 Max.	5.0±0.2	7.6±0.2	2.9 Typ	5.9 Typ	7.0 Typ	500pcs/卷盘
CDH129	12.0±0.3	12.0±0.3	9.0 Max.	5.0±0.2	7.6±0.2	2.9 Typ	5.9 Typ	7.0 Typ	500pcs/卷盘

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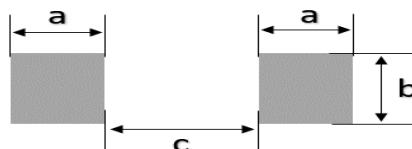
封装尺寸 (mm)

PSPHAQ4D18~6D38 尺寸图

PSPHAQ103/104/105 尺寸图



推薦的焊盤尺寸 Recommaned Land Pattern



系列 Series	封装尺寸 Dimension					焊盤尺寸 Land Pattern			最小包裝 MPQ
	A	B	C	D	E	a	b	c	
4D18	5.0 Max.	5.0 Max.	2.0 Max.	1.5 Typ.	-	2.0 Typ	2.0 Typ	2.5 Typ	2000pcs/卷盘
4D28	5.0 Max.	5.0 Max.	3.0 Max.	1.5 Typ.	-	2.0 Typ	2.0 Typ	2.5 Typ	2000pcs/卷盘
5D18	6.0 Max.	6.0 Max.	2.0 Max.	2.0 Typ.	-	2.5 Typ	2.5 Typ	2.0 Typ	1500pcs/卷盘
5D28	6.0 Max.	6.0 Max.	3.0 Max.	2.0 Typ.	-	2.5 Typ	2.5 Typ	2.0 Typ	1500pcs/卷盘
6D28	7.0 Max.	7.0 Max.	3.0 Max.	2.0 Typ.	-	2.5 Typ	3.0 Typ	3.0 Typ	1500pcs/卷盘
6D38	7.0 Max.	7.0 Max.	4.0 Max.	2.0 Typ.	-	2.5 Typ	3.0 Typ	3.0 Typ	1000pcs/卷盘
CDH103	10.5 max.	10.3 max.	3.0 Max.	3.0±0.10	1.2±0.15	3.5 Typ	1.5 Typ	6.0 Typ	1000pcs/卷盘
CDH104	10.5 max.	10.3 max.	4.0 Max.	3.0±0.10	1.2±0.15	3.5 Typ	1.5 Typ	6.0 Typ	1000pcs/卷盘
CDH105	10.5 max.	10.3 max.	5.0 Max.	3.0±0.10	1.2±0.15	3.5 Typ	1.5 Typ	6.0 Typ	1000pcs/卷盘

- ◎ 規格參數基於環境溫度25℃取得
All test Data is referenced to 25℃ ambient
- ◎ 電感工作環境溫度：-25℃ ~ 105℃
Operating temperature range -25 °C to +105 °C
- ◎ 額定電流會使電感量下降大約30%，溫度上升大約40℃
The rated current would cause Lo to drop approximately 30% and temperature rise approximately ΔT of 40℃
- ◎ 務必考慮最終的產品設計，元器件佈局，線路板走線，以及使用環境過程中，電感最終溫度不得超過105℃
The operating temperature of inductance do not exceed 105℃
- ◎ 使用電感時，請查閱第25頁注意事項
The announcements is on page 26

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產品系列 Series	贴片组装电感	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

2D11~2D18 Series

產品編碼 P/N	@ 25 °C Ambient Temperature			
	感值	公差	DCR	額定電流 (rated current)
	Inductance	Tolerance	Ω	
	μH	±	Max	mA
PSPHAQ2D11-1R5M	1.50	20%	0.068	900
PSPHAQ2D11-2R2M	2.20	20%	0.098	780
PSPHAQ2D11-3R3M	3.30	20%	0.123	600
PSPHAQ2D11-4R7M	4.70	20%	0.170	500
PSPHAQ2D11-6R8M	6.80	20%	0.260	440
PSPHAQ2D11-100M	10.00	20%	0.400	350
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PSPHAQ2D14-1R5M	1.50	20%	0.063	1800
PSPHAQ2D14-1R8M	1.80	20%	0.075	1650
PSPHAQ2D14-2R2M	2.20	20%	0.094	1500
PSPHAQ2D14-2R7M	2.70	20%	0.106	1350
PSPHAQ2D14-3R3M	3.30	20%	0.125	1200
PSPHAQ2D14-3R9M	3.90	20%	0.138	1100
PSPHAQ2D14-4R7M	4.70	20%	0.169	1000
PSPHAQ2D14-5R6M	5.60	20%	0.188	950
PSPHAQ2D14-6R8M	6.80	20%	0.213	850
PSPHAQ2D14-100M	10.00	20%	0.294	700
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PSPHAQ2D18-2R2M	2.20	20%	0.041	850
PSPHAQ2D18-3R3M	3.30	20%	0.054	750
PSPHAQ2D18-4R7M	4.70	20%	0.078	630
PSPHAQ2D18-6R8M	6.80	20%	0.106	520
PSPHAQ2D18-100M	10.00	20%	0.180	430
PSPHAQ2D18-150M	15.00	20%	0.220	350
PSPHAQ2D18-220M	22.00	20%	0.320	300
PSPHAQ2D18-330M	33.00	20%	0.460	240
PSPHAQ2D18-470M	47.00	20%	0.660	200



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產品系列 Series	贴片组装电感	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

3D16~3D28 Series

產品編碼 P/N	@ 25 °C Ambient Temperture			
	感值	公差	DCR	額定電流 (rated current)
	Inductance	Tolerance	Ω	
	μH	±	Max	mA
PSPHAQ3D16-3R3M	3.30	20%	0.066	800
PSPHAQ3D16-3R9M	3.90	20%	0.081	750
PSPHAQ3D16-4R7M	4.70	20%	0.091	680
PSPHAQ3D16-5R6M	5.60	20%	0.102	620
PSPHAQ3D16-6R8M	6.80	20%	0.130	580
PSPHAQ3D16-8R2M	8.20	20%	0.140	510
PSPHAQ3D16-100M	10.00	20%	0.190	460
PSPHAQ3D16-120M	12.00	20%	0.205	420
PSPHAQ3D16-150M	15.00	20%	0.272	380
PSPHAQ3D16-180M	18.00	20%	0.327	340
PSPHAQ3D16-220M	22.00	20%	0.356	310
PSPHAQ3D16-270M	27.00	20%	0.470	280
PSPHAQ3D16-330M	33.00	20%	0.560	260
PSPHAQ3D16-390M	39.00	20%	0.700	240
PSPHAQ3D16-470M	47.00	20%	0.775	210
PSPHAQ3D28-3R3M	3.30	20%	0.036	900
PSPHAQ3D28-4R7M	4.70	20%	0.046	800
PSPHAQ3D28-6R8M	6.80	20%	0.055	600
PSPHAQ3D28-100M	10.00	20%	0.075	480
PSPHAQ3D28-150M	15.00	20%	0.117	420
PSPHAQ3D28-220M	22.00	20%	0.157	360
PSPHAQ3D28-330M	33.00	20%	0.218	300
PSPHAQ3D28-470M	47.00	20%	0.301	280



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4D18 Series

產品編碼 P/N	@ 25 °C Ambient Temperture			
	感值	公差	DCR	額定電流 (rated current)
	Inductance	Tolerance	Ω	
	μH	±	Max	mA
PSPHAQ4D18-1R0M	1.00	20%	0.045	1720
PSPHAQ4D18-2R2M	2.20	20%	0.075	1320
PSPHAQ4D18-2R7M	2.70	20%	0.105	1280
PSPHAQ4D18-3R3M	3.30	20%	0.110	1040
PSPHAQ4D18-3R9M	3.90	20%	0.155	880
PSPHAQ4D18-4R7M	4.70	20%	0.162	840
PSPHAQ4D18-5R6M	5.60	20%	0.170	800
PSPHAQ4D18-6R8M	6.80	20%	0.200	760
PSPHAQ4D18-8R2M	8.20	20%	0.245	680
PSPHAQ4D18-100M	10.00	20%	0.263	610
PSPHAQ4D18-120M	12.00	20%	0.281	560
PSPHAQ4D18-150M	15.00	20%	0.302	500
PSPHAQ4D18-180M	18.00	20%	0.338	480
PSPHAQ4D18-220M	22.00	20%	0.397	410
PSPHAQ4D18-270M	27.00	20%	0.441	350
PSPHAQ4D18-330M	33.00	20%	0.694	320
PSPHAQ4D18-390M	39.00	20%	0.709	300
PSPHAQ4D18-470M	47.00	20%	0.922	280
PSPHAQ4D18-560M	56.00	20%	1.080	260
PSPHAQ4D18-680M	68.00	20%	1.300	240
PSPHAQ4D18-820M	82.00	20%	1.550	220
PSPHAQ4D18-101M	100.00	20%	1.730	200



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產品系列 Series	贴片组装电感	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

4D28 Series

產品編碼 P/N	@ 25 °C Ambient Temperature			
	感值	公差	DCR	額定電流 (rated current)
	Inductance	Tolerance	Ω	
	μH	±	Max	mA
PSPHAQ4D28-1R2M	1.20	20%	0.024	2560
PSPHAQ4D28-1R8M	1.80	20%	0.028	2200
PSPHAQ4D28-2R2M	2.20	20%	0.031	2040
PSPHAQ4D28-2R7M	2.70	20%	0.043	1600
PSPHAQ4D28-3R3M	3.30	20%	0.049	1570
PSPHAQ4D28-3R9M	3.90	20%	0.065	1440
PSPHAQ4D28-4R7M	4.70	20%	0.072	1320
PSPHAQ4D28-5R6M	5.60	20%	0.101	1170
PSPHAQ4D28-6R8M	6.80	20%	0.109	1120
PSPHAQ4D28-8R2M	8.20	20%	0.118	1040
PSPHAQ4D28-100M	10.00	20%	0.128	1000
PSPHAQ4D28-120M	12.00	20%	0.132	840
PSPHAQ4D28-150M	15.00	20%	0.149	760
PSPHAQ4D28-180M	18.00	20%	0.166	720
PSPHAQ4D28-220M	22.00	20%	0.235	700
PSPHAQ4D28-270M	27.00	20%	0.261	580
PSPHAQ4D28-330M	33.00	20%	0.378	560
PSPHAQ4D28-470M	47.00	20%	0.384	500
PSPHAQ4D28-680M	68.00	20%	0.699	350
PSPHAQ4D28-820M	82.00	20%	0.915	320
PSPHAQ4D28-101M	100.00	20%	1.020	290
PSPHAQ4D28-121M	120.00	20%	1.270	270
PSPHAQ4D28-151M	150.00	20%	1.350	240
PSPHAQ4D28-181M	180.00	20%	1.540	220
PSPHAQ4D28-221M	220.00	20%	1.720	200
PSPHAQ4D28-271M	270.00	20%	1.950	160
PSPHAQ4D28-331M	330.00	20%	2.660	140
PSPHAQ4D28-391M	390.00	20%	2.830	130



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產品系列 Series	贴片组装电感	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

5D18 Series

產品編碼 P/N	@ 25 °C Ambient Temperture			
	感值	公差	DCR	額定電流 (rated current)
	Inductance	Tolerance	Ω	
	μH	±	Max	mA
PSPHAQ5D18-2R2M	2.20	20%	0.039	2400
PSPHAQ5D18-3R3M	3.30	20%	0.048	1900
PSPHAQ5D18-4R7M	4.70	20%	0.068	1700
PSPHAQ5D18-6R8M	6.80	20%	0.102	1400
PSPHAQ5D18-100M	10.00	20%	0.124	1200
PSPHAQ5D18-120M	12.00	20%	0.153	1100
PSPHAQ5D18-150M	15.00	20%	0.196	970
PSPHAQ5D18-180M	18.00	20%	0.210	850
PSPHAQ5D18-220M	22.00	20%	0.290	800
PSPHAQ5D18-270M	27.00	20%	0.330	750
PSPHAQ5D18-330M	33.00	20%	0.386	650
PSPHAQ5D18-390M	39.00	20%	0.520	570
PSPHAQ5D18-470M	47.00	20%	0.595	540
PSPHAQ5D18-560M	56.00	20%	0.665	500
PSPHAQ5D18-680M	68.00	20%	0.840	430
PSPHAQ5D18-820M	82.00	20%	0.978	410
PSPHAQ5D18-101M	100.00	20%	1.200	360
PSPHAQ5D18-121M	120.00	20%	1.500	330
PSPHAQ5D18-151M	150.00	20%	1.710	310
PSPHAQ5D18-181M	180.00	20%	2.240	280
PSPHAQ5D18-221M	220.00	20%	2.440	230
PSPHAQ5D18-331M	330.00	20%	4.340	180



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5D28 Series

產品編碼 P/N	@ 25 °C Ambient Temperture			
	感值	公差	DCR	額定電流 (rated current)
	Inductance	Tolerance	Ω	
	μH	±	Max	mA
PSPHAQ5D28-2R2M	2.20	20%	0.018	3000
PSPHAQ5D28-3R3M	3.30	20%	0.024	2400
PSPHAQ5D28-4R7M	4.70	20%	0.032	2100
PSPHAQ5D28-5R3M	5.30	20%	0.038	1900
PSPHAQ5D28-6R2M	6.20	20%	0.045	1800
PSPHAQ5D28-8R2M	8.20	20%	0.053	1600
PSPHAQ5D28-100M	10.00	20%	0.065	1300
PSPHAQ5D28-120M	12.00	20%	0.076	1200
PSPHAQ5D28-150M	15.00	20%	0.103	1100
PSPHAQ5D28-180M	18.00	20%	0.110	1000
PSPHAQ5D28-220M	22.00	20%	0.122	900
PSPHAQ5D28-270M	27.00	20%	0.175	850
PSPHAQ5D28-330M	33.00	20%	0.189	750
PSPHAQ5D28-390M	39.00	20%	0.212	700
PSPHAQ5D28-470M	47.00	20%	0.260	620
PSPHAQ5D28-560M	56.00	20%	0.305	580
PSPHAQ5D28-680M	68.00	20%	0.355	520
PSPHAQ5D28-820M	82.00	20%	0.463	460
PSPHAQ5D28-101M	100.00	20%	0.520	420
PSPHAQ5D28-121M	120.00	20%	0.560	400
PSPHAQ5D28-151M	150.00	20%	0.680	350
PSPHAQ5D28-181M	180.00	20%	0.930	320
PSPHAQ5D28-221M	220.00	20%	1.150	300
PSPHAQ5D28-271M	270.00	20%	1.560	270
PSPHAQ5D28-331M	330.00	20%	1.980	250
PSPHAQ5D28-391M	390.00	20%	2.500	220
PSPHAQ5D28-471M	470.00	20%	2.700	200
PSPHAQ5D28-561M	560.00	20%	3.120	180
PSPHAQ5D28-681M	680.00	20%	4.150	160



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6D28 Series

產品編碼 P/N	@ 25 °C Ambient Temperture			
	感值	公差	DCR	額定電流 (rated current)
	Inductance	Tolerance	Ω	
	μH	±	Max	mA
PSPHAQ6D28-2R2M	2.20	20%	0.024	3600
PSPHAQ6D28-3R3M	3.30	20%	0.030	2800
PSPHAQ6D28-4R7M	4.70	20%	0.039	2400
PSPHAQ6D28-6R8M	6.80	20%	0.051	2100
PSPHAQ6D28-7R3M	7.30	20%	0.054	2100
PSPHAQ6D28-8R6M	8.60	20%	0.058	1850
PSPHAQ6D28-100M	10.00	20%	0.065	1700
PSPHAQ6D28-120M	12.00	20%	0.070	1550
PSPHAQ6D28-150M	15.00	20%	0.084	1400
PSPHAQ6D28-180M	18.00	20%	0.095	1320
PSPHAQ6D28-220M	22.00	20%	0.128	1200
PSPHAQ6D28-270M	27.00	20%	0.142	1050
PSPHAQ6D28-330M	33.00	20%	0.165	970
PSPHAQ6D28-390M	39.00	20%	0.210	860
PSPHAQ6D28-470M	47.00	20%	0.238	800
PSPHAQ6D28-560M	56.00	20%	0.277	730
PSPHAQ6D28-680M	68.00	20%	0.304	650
PSPHAQ6D28-820M	82.00	20%	0.390	600
PSPHAQ6D28-101M	100.00	20%	0.535	540
PSPHAQ6D28-121M	120.00	20%	0.750	510
PSPHAQ6D28-151M	150.00	20%	0.950	470
PSPHAQ6D28-181M	180.00	20%	1.200	410
PSPHAQ6D28-221M	220.00	20%	1.500	370
PSPHAQ6D28-271M	270.00	20%	1.700	330
PSPHAQ6D28-331M	330.00	20%	2.150	280
PSPHAQ6D28-391M	390.00	20%	2.250	270
PSPHAQ6D28-471M	470.00	20%	3.150	210
PSPHAQ6D28-561M	560.00	20%	3.750	200
PSPHAQ6D28-681M	680.00	20%	5.150	200



產品編碼 P/N	PSPCAQ32-105 series	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	贴片组装电感	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

6D38 Series

產品編碼 P/N	@ 25 °C Ambient Temperature			
	感值	公差	DCR	額定電流 (rated current)
	Inductance	Tolerance	Ω	
	μH	±	Max	mA
PSPHAQ6D38-2R2M	2.20	20%	0.018	4400
PSPHAQ6D38-3R3M	3.30	20%	0.025	3500
PSPHAQ6D38-4R7M	4.70	20%	0.027	2800
PSPHAQ6D38-6R8M	6.80	20%	0.032	2400
PSPHAQ6D38-8R7M	8.70	20%	0.034	2200
PSPHAQ6D38-100M	10.00	20%	0.038	2000
PSPHAQ6D38-120M	12.00	20%	0.053	1700
PSPHAQ6D38-150M	15.00	20%	0.057	1600
PSPHAQ6D38-180M	18.00	20%	0.092	1500
PSPHAQ6D38-220M	22.00	20%	0.096	1300
PSPHAQ6D38-270M	27.00	20%	0.109	1200
PSPHAQ6D38-330M	33.00	20%	0.124	1100
PSPHAQ6D38-390M	39.00	20%	0.138	1000
PSPHAQ6D38-470M	47.00	20%	0.155	950
PSPHAQ6D38-560M	56.00	20%	0.202	850
PSPHAQ6D38-680M	68.00	20%	0.234	750
PSPHAQ6D38-820M	82.00	20%	0.324	700
PSPHAQ6D38-101M	100.00	20%	0.358	650
PSPHAQ6D38-121M	120.00	20%	0.470	590
PSPHAQ6D38-151M	150.00	20%	0.580	540
PSPHAQ6D38-181M	180.00	20%	0.690	490
PSPHAQ6D38-221M	220.00	20%	0.890	430
PSPHAQ6D38-271M	270.00	20%	1.290	400
PSPHAQ6D38-331M	330.00	20%	1.700	370
PSPHAQ6D38-391M	390.00	20%	1.750	340
PSPHAQ6D38-471M	470.00	20%	2.200	320
PSPHAQ6D38-561M	560.00	20%	2.850	290
PSPHAQ6D38-681M	680.00	20%	3.200	250
PSPHAQ6D38-821M	820.00	20%	4.050	220
PSPHAQ6D38-102M	1000.00	20%	5.700	200



產品編碼 P/N	PSPCAQ32-105 series	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	贴片组装电感	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

CDH73 Series

產品編碼 P/N	@ 25 °C Ambient Temperature			
	感值	公差	DCR	額定電流 (rated current)
	Inductance	Tolerance	Ω	
	μH	±	Max	mA
PSPHAQ73-R47M	0.47	20%	0.017	10500
PSPHAQ73-1R0M	1.00	20%	0.017	7000
PSPHAQ73-1R5M	1.50	20%	0.017	6000
PSPHAQ73-2R2M	2.20	20%	0.025	4500
PSPHAQ73-3R3M	3.30	20%	0.025	4200
PSPHAQ73-4R7M	4.70	20%	0.058	3650
PSPHAQ73-6R8M	6.80	20%	0.058	3000
PSPHAQ73-8R2M	8.20	20%	0.063	2500
PSPHAQ73-100M	10.00	20%	0.069	2300
PSPHAQ73-120M	12.00	20%	0.083	2200
PSPHAQ73-150M	15.00	20%	0.108	2000
PSPHAQ73-180M	18.00	20%	0.125	1800
PSPHAQ73-220M	22.00	20%	0.158	1500
PSPHAQ73-330M	33.00	20%	0.232	1200
PSPHAQ73-390M	39.00	20%	0.282	900
PSPHAQ73-400M	40.00	20%	0.291	900
PSPHAQ73-470M	47.00	20%	0.374	800
PSPHAQ73-560M	56.00	20%	0.415	700
PSPHAQ73-680M	68.00	20%	0.432	610
PSPHAQ73-820M	82.00	20%	0.573	550
PSPHAQ73-101M	100.00	20%	0.656	500
PSPHAQ73-151M	150.00	20%	0.830	460
PSPHAQ73-181M	180.00	20%	0.913	390
PSPHAQ73-221M	220.00	20%	1.370	380
PSPHAQ73-271M	270.00	20%	1.917	360
PSPHAQ73-331M	330.00	20%	2.175	350
PSPHAQ73-471M	470.00	20%	3.469	320
PSPHAQ73-681M	680.00	20%	4.756	300
PSPHAQ73-821M	820.00	20%	5.810	280
PSPHAQ73-102M	1000.00	20%	8.018	260



產品編碼 P/N	PSPCAQ32-105 series	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	贴片组装电感	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

CDH74 Series

產品編碼 P/N	@ 25 °C Ambient Temperture			
	感值	公差	DCR	額定電流 (rated current)
	Inductance	Tolerance	Ω	
	μH	±	Max	mA
PSPHAQ74-1R0M	1.00	20%	0.012	9000
PSPHAQ74-1R2M	1.20	20%	0.021	8000
PSPHAQ74-1R5M	1.50	20%	0.025	8000
PSPHAQ74-1R8M	1.80	20%	0.027	7000
PSPHAQ74-2R2M	2.20	20%	0.029	6200
PSPHAQ74-2R7M	2.70	20%	0.033	5500
PSPHAQ74-3R3M	3.30	20%	0.037	4700
PSPHAQ74-4R7M	4.70	20%	0.042	3500
PSPHAQ74-6R2M	6.20	20%	0.042	3400
PSPHAQ74-8R2M	8.20	20%	0.044	3400
PSPHAQ74-100M	10.00	20%	0.046	3100
PSPHAQ74-150M	15.00	20%	0.067	3000
PSPHAQ74-180M	18.00	20%	0.083	2500
PSPHAQ74-220M	22.00	20%	0.091	2000
PSPHAQ74-270M	27.00	20%	0.106	1950
PSPHAQ74-330M	33.00	20%	0.208	1500
PSPHAQ74-390M	39.00	20%	0.249	1200
PSPHAQ74-470M	47.00	20%	0.266	1100
PSPHAQ74-560M	56.00	20%	0.291	1000
PSPHAQ74-680M	68.00	20%	0.315	900
PSPHAQ74-101M	100.00	20%	0.506	850
PSPHAQ74-121M	120.00	20%	0.540	850
PSPHAQ74-151M	150.00	20%	0.730	750
PSPHAQ74-171M	170.00	20%	1.079	740
PSPHAQ74-181M	180.00	20%	1.121	700
PSPHAQ74-221M	220.00	20%	1.162	620
PSPHAQ74-271M	270.00	20%	1.245	550
PSPHAQ74-331M	330.00	20%	1.245	500
PSPHAQ74-391M	390.00	20%	1.494	480
PSPHAQ74-471M	470.00	20%	2.158	400



產品編碼 P/N	PSPCAQ32-105 series	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	贴片组装电感	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

CDH103 Series

產品編碼 P/N	@ 25 °C Ambient Temperture			
	感值	公差	DCR	額定電流 (rated current)
	Inductance	Tolerance	Ω	
	μH	\pm	Max	mA
PSPHAQ103R-R80N	0.80	30%	0.006	11200
PSPHAQ103R-1R5M	1.50	20%	0.011	8000
PSPHAQ103R-2R2M	2.20	20%	0.017	6700
PSPHAQ103R-3R3M	3.30	20%	0.021	5560
PSPHAQ103R-4R7M	4.70	20%	0.030	4650
PSPHAQ103R-6R8M	6.80	20%	0.035	3840
PSPHAQ103R-8R2M	8.20	20%	0.050	3540
PSPHAQ103R-100M	10.00	20%	0.059	3180
PSPHAQ103R-150M	15.00	20%	0.091	2600
PSPHAQ103R-220M	22.00	20%	0.143	2160
PSPHAQ103R-330M	33.00	20%	0.202	1740
PSPHAQ103R-470M	47.00	20%	0.299	1430
PSPHAQ103R-560M	56.00	20%	0.325	1360
PSPHAQ103R-680M	68.00	20%	0.429	1220
PSPHAQ103R-820M	82.00	20%	0.494	1140
PSPHAQ103R-101M	100.00	20%	0.683	1020
PSPHAQ103R-121M	120.00	20%	0.754	890
PSPHAQ103R-151M	150.00	20%	0.871	840



產品編碼 P/N	PSPCAQ32-105 series	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	贴片组装电感	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

CDH104 Series

產品編碼 P/N	@ 25 °C Ambient Temperture			
	感值	公差	DCR	額定電流 (rated current)
	Inductance	Tolerance	Ω	
	μH	\pm	Max	mA
PSPHAQ104R-1R5M	1.50	20%	0.008	10000
PSPHAQ104R-2R2M	2.20	20%	0.011	7500
PSPHAQ104R-3R3M	3.30	20%	0.013	6000
PSPHAQ104R-4R7M	4.70	20%	0.022	5500
PSPHAQ104R-5R2M	5.20	20%	0.025	5400
PSPHAQ104R-6R8M	6.80	20%	0.027	4800
PSPHAQ104R-100M	10.00	20%	0.035	4400
PSPHAQ104R-150M	15.00	20%	0.050	3600
PSPHAQ104R-220M	22.00	20%	0.073	2900
PSPHAQ104R-330M	33.00	20%	0.093	2300
PSPHAQ104R-470M	47.00	20%	0.128	2100
PSPHAQ104R-680M	68.00	20%	0.213	1500
PSPHAQ104R-101M	100.00	20%	0.304	1350
PSPHAQ104R-151M	150.00	20%	0.506	1150
PSPHAQ104R-221M	220.00	20%	0.756	920
PSPHAQ104R-331M	330.00	20%	1.090	700



產品編碼 P/N	PSPCAQ32-105 series	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	贴片组装电感	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

CDH105 Series

產品編碼 P/N	@ 25 °C Ambient Temperature			
	感值	公差	DCR	額定電流 (rated current)
	Inductance	Tolerance	Ω	
	μH	±	Max	mA
PSPHAQ105R-R80N	0.80	30%	0.005	9500
PSPHAQ105R-1R5M	1.50	20%	0.006	8600
PSPHAQ105R-2R2M	2.20	20%	0.008	7800
PSPHAQ105R-3R3M	3.30	20%	0.011	7100
PSPHAQ105R-4R7M	4.70	20%	0.013	6500
PSPHAQ105R-6R8M	6.80	20%	0.018	5700
PSPHAQ105R-8R2M	8.20	20%	0.020	5300
PSPHAQ105R-100M	10.00	20%	0.026	4800
PSPHAQ105R-120M	12.00	20%	0.033	4600
PSPHAQ105R-150M	15.00	20%	0.041	4300
PSPHAQ105R-180M	18.00	20%	0.046	4000
PSPHAQ105R-220M	22.00	20%	0.061	3600
PSPHAQ105R-270M	27.00	20%	0.069	3200
PSPHAQ105R-330M	33.00	20%	0.084	3000
PSPHAQ105R-390M	39.00	20%	0.106	2550
PSPHAQ105R-470M	47.00	20%	0.130	2200
PSPHAQ105R-560M	56.00	20%	0.149	1900
PSPHAQ105R-680M	68.00	20%	0.201	1600
PSPHAQ105R-820M	82.00	20%	0.227	1450
PSPHAQ105R-101M	100.00	20%	0.253	1350
PSPHAQ105R-121M	120.00	20%	0.303	1180
PSPHAQ105R-151M	150.00	20%	0.370	1100
PSPHAQ105R-181M	180.00	20%	0.419	1000
PSPHAQ105R-221M	220.00	20%	0.500	940
PSPHAQ105R-271M	270.00	20%	0.672	800
PSPHAQ105R-331M	330.00	20%	0.812	730
PSPHAQ105R-391M	390.00	20%	0.953	700
PSPHAQ105R-471M	470.00	20%	1.289	540
PSPHAQ105R-561M	560.00	20%	1.430	520
PSPHAQ105R-681M	680.00	20%	1.599	510
PSPHAQ105R-821M	820.00	20%	1.768	480
PSPHAQ105R-102M	1000.00	20%	1.989	420



產品編碼 P/N	PSPCAQ32-105 series	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	贴片组装电感	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

CDH124 Series

產品編碼 P/N	@ 25 °C Ambient Temperature			
	感值	公差	DCR	額定電流 (rated current)
	Inductance	Tolerance	Ω	
	μH	±	Max	mA
PSPHAQ124-3R3M	3.30	20%	0.015	6500
PSPHAQ124-4R7M	4.70	20%	0.018	5700
PSPHAQ124-6R8M	6.80	20%	0.023	4900
PSPHAQ124-8R2M	8.20	20%	0.026	4600
PSPHAQ124-100M	10.00	20%	0.028	4500
PSPHAQ124-120M	12.00	20%	0.038	4100
PSPHAQ124-150M	15.00	20%	0.050	3200
PSPHAQ124-180M	18.00	20%	0.057	3100
PSPHAQ124-220M	22.00	20%	0.066	2900
PSPHAQ124-270M	27.00	20%	0.080	2800
PSPHAQ124-330M	33.00	20%	0.097	2700
PSPHAQ124-390M	39.00	20%	0.132	2100
PSPHAQ124-470M	47.00	20%	0.160	1900
PSPHAQ124-560M	56.00	20%	0.190	1800
PSPHAQ124-680M	68.00	20%	0.220	1500
PSPHAQ124-820M	82.00	20%	0.260	1300
PSPHAQ124-101M	100.00	20%	0.308	1200
PSPHAQ124-121M	120.00	20%	0.380	1100
PSPHAQ124-151M	150.00	20%	0.530	950
PSPHAQ124-181M	180.00	20%	0.620	850
PSPHAQ124-221M	220.00	20%	0.700	800
PSPHAQ124-271M	270.00	20%	0.870	600
PSPHAQ124-331M	330.00	20%	0.990	500



產品編碼 P/N	PSPCAQ32-105 series	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	贴片组装电感	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

CDH125 Series

產品編碼 P/N	@ 25 °C Ambient Temperture			
	感值	公差	DCR	額定電流 (rated current)
	Inductance	Tolerance	Ω	
	μH	±	Max	mA
PSPHAQ125-1R5M	1.50	20%	0.012	8000
PSPHAQ125-2R2M	2.20	20%	0.014	7000
PSPHAQ125-3R3M	3.30	20%	0.017	6000
PSPHAQ125-4R7M	4.70	20%	0.020	5000
PSPHAQ125-6R8M	6.80	20%	0.021	4500
PSPHAQ125-7R5M	7.50	20%	0.024	4300
PSPHAQ125-100M	10.00	20%	0.025	4000
PSPHAQ125-120M	12.00	20%	0.027	3500
PSPHAQ125-150M	15.00	20%	0.030	3300
PSPHAQ125-180M	18.00	20%	0.034	3000
PSPHAQ125-220M	22.00	20%	0.036	2800
PSPHAQ125-270M	27.00	20%	0.051	2300
PSPHAQ125-330M	33.00	20%	0.057	2100
PSPHAQ125-390M	39.00	20%	0.068	2000
PSPHAQ125-470M	47.00	20%	0.075	1800
PSPHAQ125-560M	56.00	20%	0.110	1700
PSPHAQ125-680M	68.00	20%	0.120	1500
PSPHAQ125-820M	82.00	20%	0.140	1400
PSPHAQ125-101M	100.00	20%	0.160	1300
PSPHAQ125-121M	120.00	20%	0.170	1100
PSPHAQ125-151M	150.00	20%	0.230	1000
PSPHAQ125-181M	180.00	20%	0.290	900
PSPHAQ125-221M	220.00	20%	0.400	800
PSPHAQ125-271M	270.00	20%	0.460	750
PSPHAQ125-331M	330.00	20%	0.510	680
PSPHAQ125-391M	390.00	20%	0.690	650
PSPHAQ125-471M	470.00	20%	0.770	580
PSPHAQ125-561M	560.00	20%	0.860	540
PSPHAQ125-681M	680.00	20%	1.200	480
PSPHAQ125-821M	820.00	20%	1.340	430
PSPHAQ125-102M	1000.00	20%	1.530	400



產品編碼 P/N	PSPCAQ32-105 series	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	贴片组装电感	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

CDH127 Series

產品編碼 P/N	@ 25 °C Ambient Temperture			
	感值	公差	DCR	額定電流 (rated current)
	Inductance	Tolerance	Ω	
	μH	±	Max	mA
PSPHAQ127-1R5M	1.50	20%	0.007	10000
PSPHAQ127-2R2M	2.20	20%	0.012	8000
PSPHAQ127-3R3M	3.30	20%	0.014	7500
PSPHAQ127-3R9M	3.90	20%	0.015	7000
PSPHAQ127-4R7M	4.70	20%	0.016	6800
PSPHAQ127-6R8M	6.80	20%	0.018	6600
PSPHAQ127-100M	10.00	20%	0.022	5400
PSPHAQ127-120M	12.00	20%	0.024	4900
PSPHAQ127-150M	15.00	20%	0.027	4600
PSPHAQ127-180M	18.00	20%	0.040	3900
PSPHAQ127-220M	22.00	20%	0.044	3600
PSPHAQ127-270M	27.00	20%	0.046	3400
PSPHAQ127-330M	33.00	20%	0.065	3000
PSPHAQ127-390M	39.00	20%	0.073	2750
PSPHAQ127-470M	47.00	20%	0.100	2500
PSPHAQ127-560M	56.00	20%	0.110	2350
PSPHAQ127-680M	68.00	20%	0.140	2100
PSPHAQ127-820M	82.00	20%	0.160	1950
PSPHAQ127-101M	100.00	20%	0.220	1700
PSPHAQ127-121M	120.00	20%	0.250	1600
PSPHAQ127-151M	150.00	20%	0.280	1420
PSPHAQ127-181M	180.00	20%	0.350	1300
PSPHAQ127-221M	220.00	20%	0.390	1160
PSPHAQ127-271M	270.00	20%	0.560	1060
PSPHAQ127-331M	330.00	20%	0.640	950
PSPHAQ127-391M	390.00	20%	0.700	880
PSPHAQ127-471M	470.00	20%	0.980	790
PSPHAQ127-561M	560.00	20%	1.070	730
PSPHAQ127-681M	680.00	20%	1.460	670
PSPHAQ127-821M	820.00	20%	1.640	600
PSPHAQ127-102M	1000.00	20%	1.820	550



產品編碼 P/N	PSPCAQ32-105 series	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	贴片组装电感	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

CDH129 Series

產品編碼 P/N	@ 25 °C Ambient Temperature			
	感值	公差	DCR	額定電流 (rated current)
	Inductance	Tolerance	Ω	
	μH	±	Max	mA
PSPHAQ129-1R5M	1.50	20%	4.280	15100
PSPHAQ129-1R8M	1.80	20%	7.500	13200
PSPHAQ129-2R2M	2.20	20%	4.810	13200
PSPHAQ129-3R3M	3.30	20%	5.550	11900
PSPHAQ129-4R7M	4.70	20%	7.410	10800
PSPHAQ129-5R6M	5.60	20%	9.330	9600
PSPHAQ129-6R8M	6.80	20%	11.600	8700
PSPHAQ129-100M	10.00	20%	15.240	8000
PSPHAQ129-150M	15.00	20%	23.130	7000
PSPHAQ129-220M	22.00	20%	28.690	5600
PSPHAQ129-330M	33.00	20%	43.470	4800
PSPHAQ129-470M	47.00	20%	55.830	3900
PSPHAQ129-680M	68.00	20%	77.110	2700
PSPHAQ129-101M	100.00	20%	117.500	2100

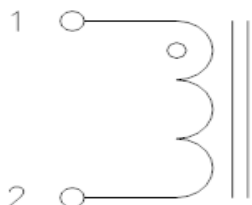


特性 CHARACTERISTICS

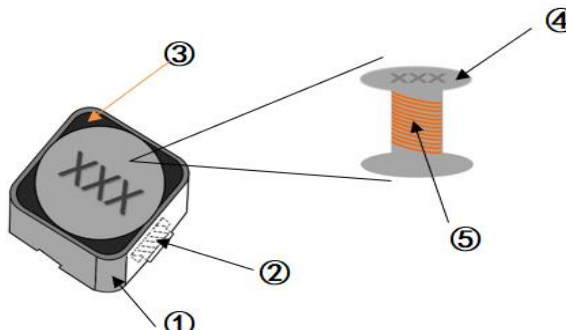


產品編碼 P/N	PSPCAQ32~105 series	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	贴片组装电感	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

電路結構 Connections



內部構造 Internal Structure



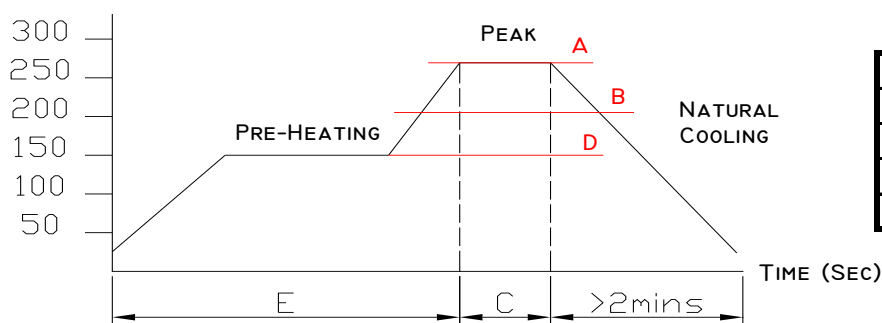
- ◎ 電感內置一組線圈
Inductor Contents one (1) Set(s) of Coil
- ◎ 電感使用不需要區分正負方向
DC/AC Current Shall Be Introduced By Any One of Two Pads

NO.	結構 Structure Name	材料規格 Material Name
①	磁罩/Magnetic cover	鎳鋅鐵氧體/Ni-Zn Ferrite Core
②	電極/Electrode	銅-鎳-錫端子/Cu-Ni-Sn plating
③	膠水/Glue	環氧樹脂/Epoxy Resin
④	磁芯/Magnetic Core	鎳鋅鐵氧體/Ni-Zn Ferrite Core
⑤	銅線/Copper Wire	聚氨酯漆包線/Polyurethane Enameled Copper Wire

焊接溫度（推荐）

Recommended Soldering Temperature Graph

TEMPERATURE (°C)



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



譜羅德電子科技（深圳）有限公司
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或者扫描二维码通过微信小程序获取

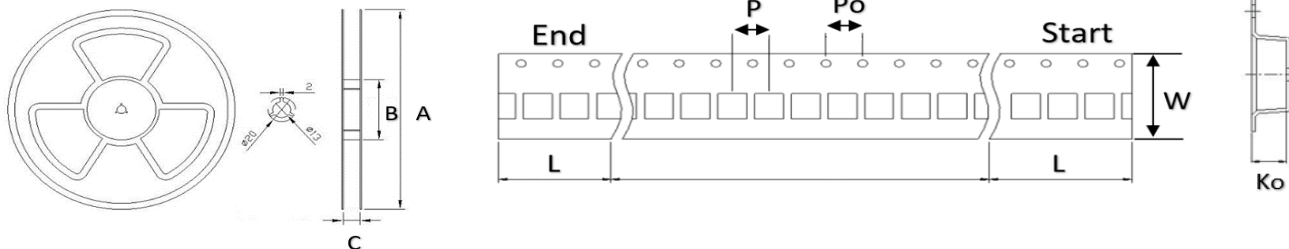
<https://www.prodtech.cn/>



產品編碼 P/N	PSPCAQ32~105 series	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	贴片组装电感	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

載帶卷盤尺寸 : (mm)

Packing Dimension



系列 Series	A	B	C	W	P	Po	Ko	L
2D11	330	100	13	12	8.0	4.0	1.5	前后预留大约 30空格
2D14	330	100	13	12	8.0	4.0	1.6	
2D18	330	100	13	12	8.0	4.0	2.2	
3D16	330	100	13	12	8.0	4.0	2.1	
3D28	330	100	13	12	8.0	4.0	3.2	
4D18	330	100	13	12	8.0	4.0	2.2	
4D28	330	100	13	12	8.0	4.0	3.2	
5D18	330	100	13	12	8.0	4.0	2.2	
5D28	330	100	13	12	8.0	4.0	3.2	
6D28	330	100	13	12	8.0	4.0	3.2	
6D38	330	100	13	12	8.0	4.0	4.2	
CDH73	330	100	17	16	12	4	3.7	
CDH74	330	100	17	16	12	4	4.7	
CDH103	330	100	25	24	16	4	3.2	
CDH104	330	100	25	24	16	4	4.2	
CDH105	330	100	25	24	16	4	5.2	
CDH124	330	100	25	24	16	4	5.2	
CDH125	330	100	25	24	16	4	6.2	
CDH127	330	100	25	24	16	4	8.2	
CDH129	330	100	25	24	16	4	9.2	



包裝方式

PACKING FOR SMD



產品編碼 P/N	PSPCAQ32~105 series	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	贴片组装电感	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

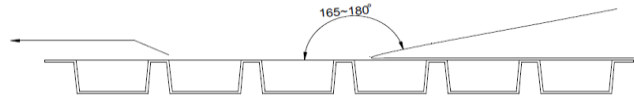
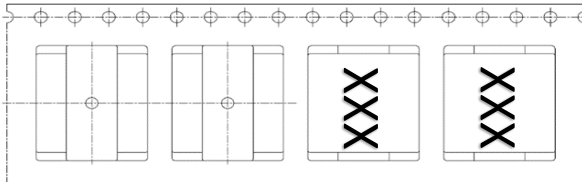
載帶內產品排列方式:
Inductance Packing Method

載帶剝離力:
Typical Pulling Force

尾字對孔

The last mark is on the side of the gear hole

20~120 gf

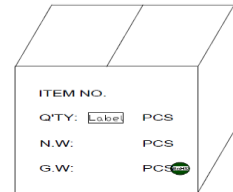
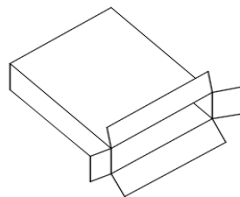
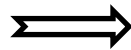
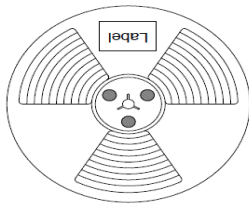


裝箱數量:
Package Quantity

卷盘
MPQ

内盒
Middle box

外箱
Outer box



系列 Series	卷盘 MPQ	内盒 Middle box	外箱 Outer box
2D11	3000pcs	9000pcs	27000pcs
2D14	3000pcs	9000pcs	27000pcs
2D18	3000pcs	9000pcs	27000pcs
3D16	3000pcs	9000pcs	27000pcs
3D28	3000pcs	9000pcs	27000pcs
4D18	2000pcs	6000pcs	18000pcs
4D28	2000pcs	6000pcs	18000pcs
5D18	1500pcs	4500pcs	13500pcs
5D28	1500pcs	4500pcs	13500pcs
6D28	1500pcs	4500pcs	13500pcs
6D38	1000pcs	3000pcs	9000pcs
CDH73	1000pcs	3000pcs	9000pcs
CDH74	1000pcs	3000pcs	9000pcs
CDH103	1000pcs	3000pcs	9000pcs
CDH104	1000pcs	3000pcs	9000pcs
CDH105	1000pcs	3000pcs	9000pcs
CDH124	500pcs	1000pcs	3000pcs
CDH125	500pcs	1000pcs	3000pcs
CDH127	500pcs	1000pcs	3000pcs
CDH129	500pcs	1000pcs	3000pcs





注意事項

使用本產品時，請注意以下事項

- ◎ 產品保存期限為12個月，保存條件：溫度5~40℃，濕度10~75%RH以內，超過保存期限可能會使產品端子電極發生氧化。
- ◎ 請勿在極端環境下使用和保存（高鹽，強酸，強鹼，強輻射等）。
- ◎ 產品焊接前，請進行預熱；預熱溫度與焊接溫度之間溫差建議控制在150℃以內。
- ◎ 產品焊接後需重新拆卸焊接修正時，請遵循規格書規定的條件範圍；過高的加熱溫度以及反復的拆卸可能會導致產品失效。
- ◎ 產品請勿接觸清洗劑，酒精等液體，這會侵蝕產品本體，從而導致產品失效。
- ◎ 產品焊接到線路板後，請注意不可因線路板整體變形或局部變形而施加給電感剩餘應力，這可能會導致電感發生破裂，脫落，以致失效。
- ◎ 產品通電後溫度會隨電流的增大而上升，設計時請務必考慮留有餘量。
- ◎ 過高的靜電會對產品產生永久性損害，請注意靜電防護。
- ◎ 產品通電過程請勿觸摸產品任何部位，防止觸電。
- ◎ 本產品作為磁性產品，設計時請務必考慮周邊元器件與本產品可能產生的相互影響。
- ◎ 本產品適用於一般電子設備，如：AV設備，通信設備，家電產品，娛樂設備，電腦設備，個人設備，辦公設備，計測設備，工業機器人等。且該一般電子設備需在常規的操作和使用方法環境下使用。對於需要高度安全性和可靠性的，或者因本產品失效造成設備故障，誤操作，運轉不良等危及到人的生命身體及財產安全，以及對社會產生較大不良影響的特殊用途，設計使用前務必同本公司溝通，設計使用者如未取得我司書面同意狀況下使用造成任何後果，我司不予承擔。特殊用途包含但不限定如下清單：
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 - 9 防災賑災設備
 - 10 各種安規設備
 - 11 其他被認定為特殊用途的設備





ANNOUNCEMENTS

Please read this before using the product.

- © The product storage life is 12 months, Storage Temperature: TEMP.5~40°C; RH10%~75%. Please use the product within the warranty period
- © Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, radiation etc.) .
- © Before soldering, be sure to preheat components:The preheating temperature should be set so that The temperature difference between the solder temperature and chip temperature does not exceed 150° C.
- © Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur. Repeated disassembly may invalidate the inductance
- © The cleaning agent can not be used for these products. This may corrode the inductor
- © When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
- © Self heating (Rated Current or Irms) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- © Too high static electricity will cause permanent damage to the product, please pay attention to electrostatic protection.
- © As a magnetic product, the design must consider the possible interaction between peripheral components and the product.
- © The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

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