

LEADING & SOLUTION

Inductor(Coil), Balun, Spring and Troidal Coil

About
LS Communication...



작지만 **강한** 회사



엘에스통신주식회사
LS Communication Co.,Ltd.



고객으로부터
인정받는 회사



직원으로부터
사랑받는 회사

“

**기본에 충실하고
고객을 최우선으로 생각하는
회사입니다.**

”

HISTORY



2010's	2019	AEC-Q200 인증 취득 : Power Inductor
	2018	IATF 16949 품질경영 시스템 인증 취득 DOCSIS 3.0 & 3.1 Switchable Module 개발
	2016	베트남법인 ISO(9001, 14001) 인증 취득 IoT Module 개발 : WiFi, BLE, Wi-Sun, WiFi-BLE Combo, Zigbee IoT사업 개시(IoT 스위치, 콘센트, 감지센서 등) 전력 사용량 Monitoring & Control System 개발 기술혁신형 중소기업(Inno-Biz) 확인
	2015	소재부품 전문기업 선정 : 산업통상자원부장관 베트남 법인(LS Comm VINA) 설립 (대지 22,000㎡, 건물 6,400㎡)
	2014	일본법인 설립(Tokyo LS통신 주식회사)
	2011	CATV Filter 외 5건 특허 취득



2000's	2008	경기도 유망중소기업 선정
	2007	Galvanic Isolator 개발(F-Type) RF Module 개발
	2006	중국 ISO 14000인증(DNV) HITACHI 전기 SMD Balun 공급계약 체결
	2004	SMD Power Inductor 실용신안 3종 획득
	2003	CATV Passive 제품 형식승인 인증 중국 ISO9001:2000 인증
	2001	CE, UL, 안전인증 획득 부설연구소 인가 SMD Balun 개발/공급



1990's	1996	중국(청도) 공장 설립 엘에스통신(주) 설립
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SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPE252012

SMD Magnetic-resin shielded type

UNIT : mm

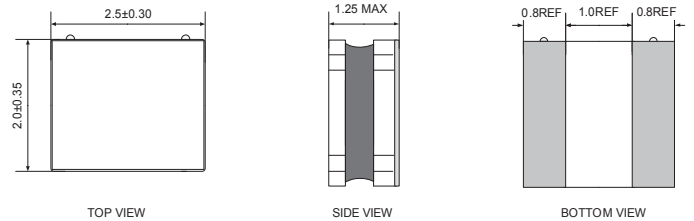
TYPE SPE252012

For Reflow Soldering

Frequency Range: 1kHz ~1MHz

Inductance Range: 0.24 ~ 47uH

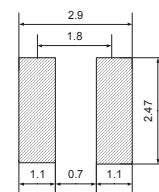
Dimensions



Features

- *Low profile (1.25mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion

Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ max)	Rated current (A,max)	Marking
SPE252012-R24N	0.24±30%	34	4.05	-
SPE252012-R47N	0.47±30%	44	3.60	-
SPE252012-R68N	0.68±30%	57	2.70	-
SPE252012-1R0N	1.0±30%	66	2.45	-
SPE252012-1R5N	1.5±30%	86	2.05	-
SPE252012-2R2N	2.2±30%	120	1.90	-
SPE252012-3R3N	3.3±30%	160	1.50	-
SPE252012-4R7M	4.7±20%	229	1.35	-
SPE252012-6R8M	6.8±20%	325	1.0	-
SPE252012-100M	10±20%	492	0.75	-
SPE252012-150M	15±20%	648	0.56	-
SPE252012-220M	22±20%	1020	0.50	-
SPE252012-470M	47±20%	2250	0.30	-

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPE3012

SMD Magnetic-resin shielded type

UNIT : mm

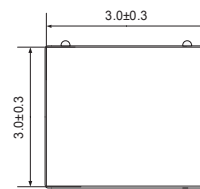
TYPE SPE3012

For Reflow Soldering

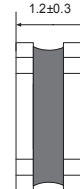
Frequency Range: 1kHz ~5MHz

Inductance Range: 2.2 ~ 47uH

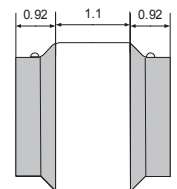
Dimensions



TOP VIEW



SIDE VIEW

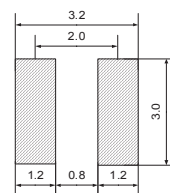


BOTTOM VIEW

Features

- *Low profile (1.2mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion

Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (A,max)	Marking
SPE3012-2R2N	2.2±30%	75	1.35	-
SPE3012-100M	10±20%	285	0.76	-
SPE3012-330M	33±20%	1.2Ω	0.40	-
SPE3012-470M	47±20%	1.3Ω	0.30	-

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPE3015

SMD Magnetic-resin shielded type

UNIT : mm

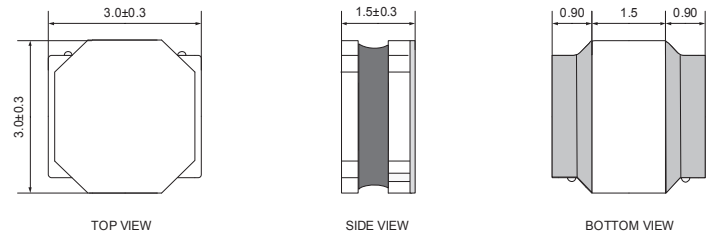
TYPE SPE3015

For Reflow Soldering

Frequency Range: 1kHz ~5MHz

Inductance Range: 1.0 ~ 47uH

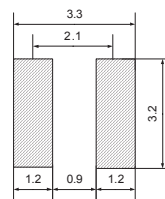
Dimensions



Features

- *Low profile (1.5mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion

Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (max)	Temperature rise current (A,max)	Marking
SPE3015-1R0N	1.0±30%	30	2.3	2.2	-
SPE3015-1R2N	1.2±30%	36	2.2	1.9	-
SPE3015-1R5N	1.5±30%	45	2.1	1.6	-
SPE3015-1R8N	1.8±30%	50	1.8	1.5	-
SPE3015-2R2N	2.2±30%	60	1.6	1.4	-
SPE3015-2R7N	2.7±30%	79	1.5	1.3	-
SPE3015-3R3N	3.3±30%	85	1.3	1.2	-
SPE3015-4R7M	4.7±20%	125	1.1	1.0	-
SPE3015-5R6M	5.6±20%	150	1.0	0.95	-
SPE3015-6R8M	6.8±20%	200	0.9	0.85	-
SPE3015-8R2M	8.2±20%	225	0.8	0.75	-
SPE3015-100M	10±20%	255	0.72	0.70	-
SPE3015-120M	12±20%	360	0.65	0.60	-
SPE3015-150M	15±20%	460	0.60	0.55	-
SPE3015-220M	22±20%	520	0.50	0.47	-
SPE3015-330M	33±20%	920	0.40	0.37	-
SPE3015-470M	47±20%	1.60Ω	0.35	0.30	-

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Temperature rise current : DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 25°C ambient.

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPE4020

SMD Magnetic-resin shielded type

UNIT : mm

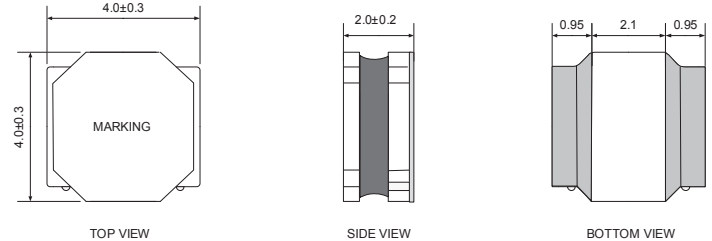
TYPE SPE4020

For Reflow Soldering

Frequency Range: 1kHz ~5MHz

Inductance Range: 1.0 ~ 100uH

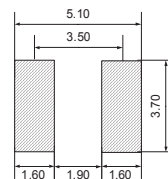
Dimensions



Features

- *Low profile (2.0mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion
- *Pass the AEC-Q200 Certification Test

Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (A,max)	Temperature rise current (A,max)	Marking
SPE4020-1R0N	1.0±30%	23	5.1	2.15	1R0
SPE4020-1R5N	1.5±30%	28	4.0	1.95	1R5
SPE4020-1R8N	1.8±30%	33	3.9	1.90	1R8
SPE4020-2R2N	2.2±30%	40	3.4	1.85	2R2
SPE4020-2R7N	2.7±30%	45	3.2	1.50	2R7
SPE4020-3R3N	3.3±30%	56	2.9	1.40	3R3
SPE4020-4R7M	4.7±20%	81	2.4	1.30	4R7
SPE4020-5R6M	5.6±20%	90	2.1	1.20	5R6
SPE4020-6R8M	6.8±20%	115	2.0	1.04	6R8
SPE4020-8R2M	8.2±20%	141	1.7	0.95	8R2
SPE4020-100M	10±20%	173	1.5	0.90	100
SPE4020-120M	12±20%	185	1.3	0.88	120
SPE4020-150M	15±20%	290	1.2	0.77	150
SPE4020-220M	22±20%	465	1.0	0.62	220
SPE4020-330M	33±20%	595	0.85	0.49	330
SPE4020-390M	39±20%	650	0.75	0.46	390
SPE4020-470M	47±20%	755	0.70	0.44	470
SPE4020-560M	56±20%	1.0Ω	0.65	0.41	560
SPE4020-680M	68±20%	1.15Ω	0.60	0.36	680
SPE4020-820M	82±20%	1.9Ω	0.55	0.34	820
SPE4020-101M	100±20%	2.1Ω	0.50	0.31	101

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Temperature rise current : DC current that causes the temperature rise (ΔT =40°C) from 25°C ambient.

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPE4030

SMD Magnetic-resin shielded type

UNIT : mm

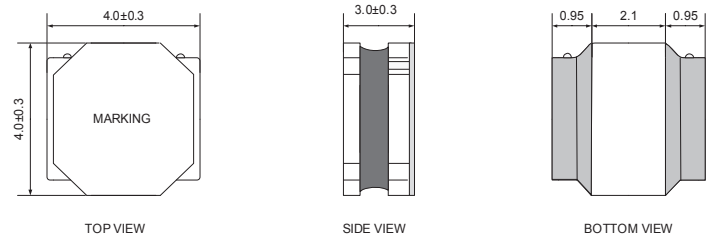
TYPE SPE4030

For Reflow Soldering

Frequency Range: 1kHz ~5MHz

Inductance Range: 0.91 ~ 100uH

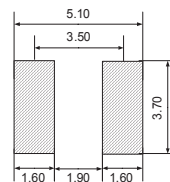
Dimensions



Features

- *Low profile (3.0mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion
- *Pass the AEC-Q200 Certification Test

Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (A,max)	Temperature rise current (A,max)	Marking
SPE4030-R91N	0.91±30%	18	6.3	4.0	R91
SPE4030-1R2N	1.2±30%	21	5.8	3.5	1R2
SPE4030-1R5N	1.5±30%	24	5.0	3.2	1R5
SPE4030-2R2N	2.2±30%	31	4.3	2.8	2R2
SPE4030-3R0N	3.0±30%	39	3.5	2.4	3R0
SPE4030-3R6N	3.6±30%	49	3.3	2.2	3R6
SPE4030-4R7M	4.7±20%	67	2.9	2.0	4R7
SPE4030-5R6M	5.6±20%	73	2.7	1.9	5R6
SPE4030-6R8M	6.8±20%	92	2.4	1.8	6R8
SPE4030-7R5M	7.5±20%	99	2.2	1.6	7R5
SPE4030-8R2M	8.2±20%	128	2.1	1.5	8R2
SPE4030-100M	10±20%	138	1.95	1.4	100
SPE4030-120M	12±20%	170	1.7	1.3	120
SPE4030-150M	15±20%	212	1.5	1.0	150
SPE4030-180M	18±20%	236	1.4	0.95	180
SPE4030-220M	22±20%	355	1.2	0.90	220
SPE4030-330M	33±20%	440	1.0	0.80	330
SPE4030-470M	47±20%	705	0.85	0.70	470
SPE4030-560M	56±20%	810	0.80	0.60	560
SPE4030-680M	68±20%	920	0.72	0.50	680
SPE4030-820M	82±20%	1.25Ω	0.66	0.46	820
SPE4030-101M	100±20%	1.37Ω	0.60	0.45	101

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Temperature rise current : DC current that causes the temperature rise (ΔT =40°C) from 25°C ambient.

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPE5020

SMD Magnetic-resin shielded type

UNIT : mm

TYPE SPE5020

For Reflow Soldering

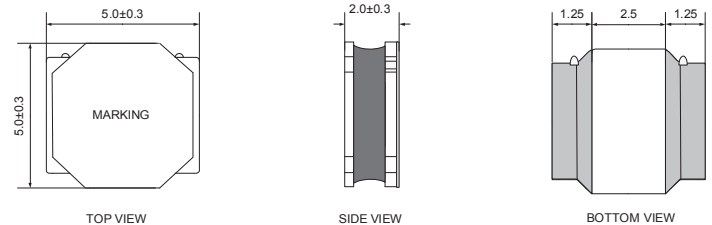
Frequency Range: 1kHz ~5MHz

Inductance Range: 0.75 ~ 100uH

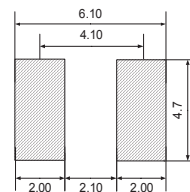
Features

- *Low profile (2.0mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion
- *Pass the AEC-Q200 Certification Test

Dimensions



Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (A,max)	Temperature rise current (A,max)	Marking
SPE5020-R75N	0.75±30%	14	5.7	3.50	R75
SPE5020-1R2N	1.2±30%	18	4.2	3.20	1R2
SPE5020-1R5N	1.5±30%	23	4.0	3.00	1R5
SPE5020-2R2N	2.2±30%	27	3.4	2.85	2R2
SPE5020-3R0N	3.0±30%	35	2.8	2.40	3R0
SPE5020-3R6N	3.6±30%	40	2.7	2.30	3R6
SPE5020-4R7M	4.7±20%	45	2.2	1.98	4R7
SPE5020-5R6M	5.6±20%	66	2.1	1.90	5R6
SPE5020-6R8M	6.8±20%	70	1.8	1.80	6R8
SPE5020-7R5M	7.5±20%	80	1.7	1.70	7R5
SPE5020-100M	10±20%	110	1.5	1.44	100
SPE5020-120M	12±20%	140	1.3	1.40	120
SPE5020-150M	15±20%	160	1.2	1.35	150
SPE5020-180M	18±20%	210	1.1	1.15	180
SPE5020-220M	22±20%	300	1.0	1.00	220
SPE5020-330M	33±20%	390	0.8	0.75	330
SPE5020-470M	47±20%	630	0.7	0.65	470
SPE5020-560M	56±20%	685	0.6	0.60	560
SPE5020-680M	68±20%	790	0.55	0.55	680
SPE5020-820M	82±20%	1.06Ω	0.50	0.52	820
SPE5020-101M	100±20%	1.22Ω	0.45	0.50	101

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Temperature rise current : DC current that causes the temperature rise (ΔT =40°C) from 25°C ambient.

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPE5040

SMD Magnetic-resin shielded type

UNIT : mm

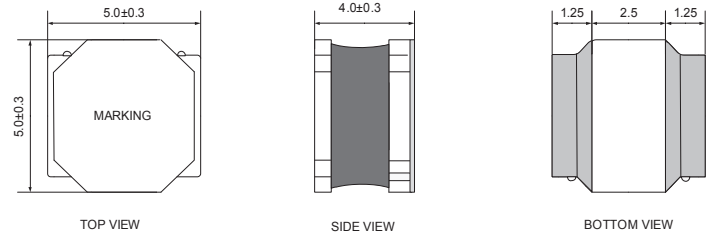
TYPE SPE5040

For Reflow Soldering

Frequency Range: 1kHz ~5MHz

Inductance Range: 1.0 ~ 330uH

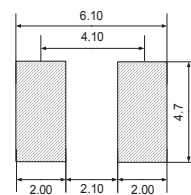
Dimensions



Features

- *Low profile (2.0mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion
- *Pass the AEC-Q200 Certification Test

Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (A,max)	Temperature rise current (A,max)	Marking
SPE5040-1R0N	1.0±30%	14	7.0	4.8	1R0
SPE5040-1R5N	1.5±30%	16	6.0	4.2	1R5
SPE5040-1R8N	1.8±30%	18	5.5	4.0	1R8
SPE5040-2R2N	2.2±30%	22	5.1	3.8	2R2
SPE5040-3R3N	3.3±30%	24	4.2	3.4	3R3
SPE5040-3R6N	3.6±30%	28	4.1	3.2	3R6
SPE5040-4R7M	4.7±20%	31	3.5	3.0	4R7
SPE5040-5R6M	5.6±20%	37	3.2	2.8	5R6
SPE5040-6R8M	6.8±20%	40	2.7	2.5	6R8
SPE5040-8R5M	8.5±20%	57	2.5	2.2	8R5
SPE5040-100M	10±20%	60	2.3	2.1	100
SPE5040-150M	15±20%	100	1.9	-	150
SPE5040-220M	22±20%	135	1.6	-	220
SPE5040-330M	33±20%	220	1.2	-	330
SPE5040-470M	47±20%	275	1.0	-	470
SPE5040-560M	56±20%	395	0.9	-	560
SPE5040-680M	68±20%	440	0.8	-	680
SPE5040-820M	82±20%	545	0.75	-	820
SPE5040-101M	100±20%	610	0.65	-	101
SPE5040-221M	220±20%	1.65Ω	0.45	-	221
SPE5040-331M	330±20%	2.70Ω	0.35	-	331

Standard Parts selection Guide

*Inductance : Agilent 4284A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Temperature rise current : DC current that causes the temperature rise (ΔT =40°C) from 25°C ambient.

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPE6028

SMD Magnetic-resin shielded type

UNIT : mm

TYPE SPE6028

For Reflow Soldering

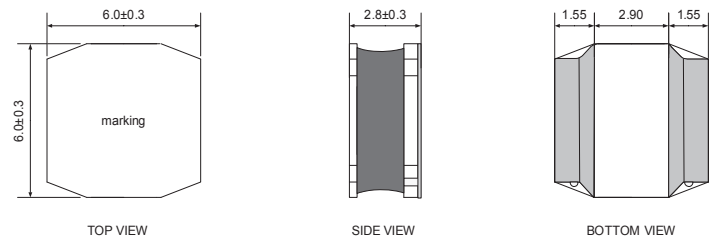
Frequency Range: 1kHz ~5MHz

Inductance Range: 0.82 ~ 100uH

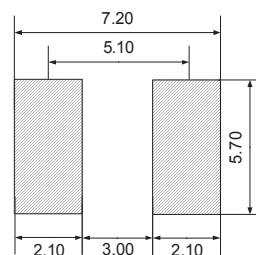
Features

- *Low profile (2.8mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion
- *Pass the AEC-Q200 Certification Test

Dimensions



Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (A,max)	Temperature rise current (A,max)	Marking
SPE6028-R82N	0.82±30%	11	6.5	4.6	R82
SPE6028-1R2N	1.2±30%	13	6.0	4.5	1R2
SPE6028-1R8N	1.8±30%	16	5.2	4.0	1R8
SPE6028-2R2N	2.2±30%	19	4.6	3.6	2R2
SPE6028-3R3N	3.3±30%	22	4.0	3.4	3R3
SPE6028-3R9N	3.9±30%	25	3.6	3.0	3R9
SPE6028-4R7M	4.7±20%	29	3.3	3.0	4R7
SPE6028-5R6M	5.6±20%	36	3.0	2.6	5R6
SPE6028-6R8M	6.8±20%	43	2.6	2.4	6R8
SPE6028-8R2M	8.2±20%	52	2.3	2.1	8R2
SPE6028-100M	10±20%	57	2.1	1.9	100
SPE6028-120M	12±20%	73	1.9	1.7	120
SPE6028-150M	15±20%	85	1.8	1.5	150
SPE6028-220M	22±20%	121	1.5	1.4	220
SPE6028-330M	33±20%	183	1.2	1.1	330
SPE6028-470M	47±20%	250	0.95	0.9	470
SPE6028-560M	56±20%	325	0.90	0.8	560
SPE6028-680M	68±20%	384	0.85	0.7	680
SPE6028-820M	82±20%	457	0.75	0.65	820
SPE6028-101M	100±20%	550	0.70	0.6	101

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Temperature rise current : DC current that causes the temperature rise (ΔT =40°C) from 25°C ambient.

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPE6045

SMD Magnetic-resin shielded type

UNIT : mm

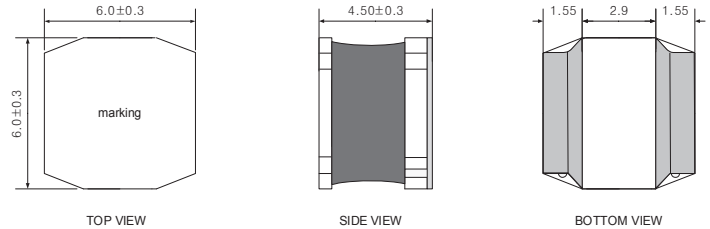
TYPE SPE6045

For Reflow Soldering

Frequency Range: 1kHz ~5MHz

Inductance Range: 1.0 ~ 2,200uH

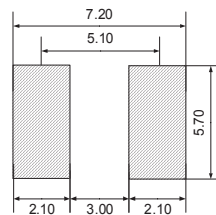
Dimensions



Features

- *Low profile (4.5mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion
- *Pass the AEC-Q200 Certification Test

Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (A,max)	Temperature rise current (A,max)	Marking
SPE6045-1R0N	1.0±30%	10	8.3	5.1	1R0
SPE6045-1R5N	1.5±30%	11	8.0	4.9	1R5
SPE6045-1R8N	1.8±30%	12	7.0	4.8	1R8
SPE6045-2R2N	2.2±30%	14	6.6	4.6	2R2
SPE6045-3R0N	3.0±30%	17	5.6	4.2	3R0
SPE6045-3R6N	3.6±30%	23	4.8	3.7	3R6
SPE6045-4R7M	4.7±20%	25	4.5	3.3	4R7
SPE6045-5R6M	5.6±20%	30	4.0	3.1	5R6
SPE6045-6R8M	6.8±20%	31	3.6	3.0	6R8
SPE6045-7R5M	7.5±20%	35	3.5	2.7	7R5
SPE6045-8R2M	8.2±20%	37	3.4	2.6	8R2
SPE6045-100M	10±20%	47	3.0	2.4	100
SPE6045-120M	12±20%	52	2.6	2.2	120
SPE6045-150M	15±20%	66	2.5	2.0	150
SPE6045-220M	22±20%	90	2.0	1.8	220
SPE6045-330M	33±20%	137	1.6	1.4	330
SPE6045-470M	47±20%	187	1.3	1.2	470
SPE6045-560M	56±20%	221	1.2	1.1	560
SPE6045-680M	68±20%	287	1.0	0.9	680
SPE6045-820M	82±20%	326	0.95	0.85	820
SPE6045-101M	100±20%	433	0.90	0.80	101
SPE6045-221M	220±20%	850	0.65	-	221
SPE6045-331M	330±20%	1.15Ω	0.55	-	331
SPE6045-471M	470±20%	2.01Ω	0.50	-	471
SPE6045-152M	1,500±20%	5.50Ω	0.30	-	152
SPE6045-222M	2,200±20%	8.41Ω	0.19	-	222

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Temperature rise current : DC current that causes the temperature rise (ΔT =40°C) from 25°C ambient.

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPE8040

SMD Magnetic-resin shielded type

UNIT : mm

TYPE SPE8040

For Reflow Soldering

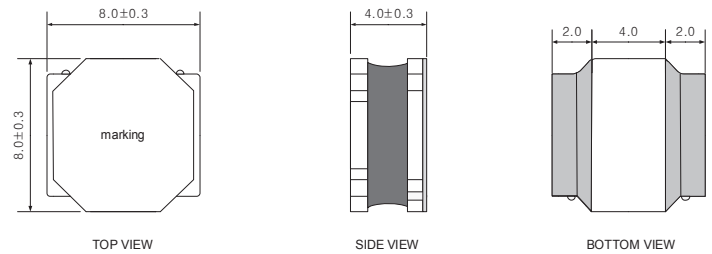
Frequency Range: 1kHz ~5MHz

Inductance Range: 1.0 ~ 330uH

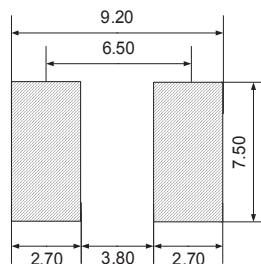
Features

- *Low profile (4.0mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion

Dimensions



Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (A,max)	Temperature rise current (A,max)	Marking
SPE8040-1R0N	1.0±30%	8	9.85	6.30	1R0
SPE8040-1R5N	1.5±30%	10	9.0	5.60	1R5
SPE8040-2R2N	2.2±30%	12	7.1	5.20	2R2
SPE8040-3R0N	3.0±30%	14	6.1	4.70	3R0
SPE8040-3R9N	3.9±30%	17	5.7	4.30	3R9
SPE8040-4R7M	4.7±20%	19	5.4	4.10	4R7
SPE8040-5R6M	5.6±20%	23	5.0	3.80	5R6
SPE8040-6R8M	6.8±20%	25	4.5	3.60	6R8
SPE8040-8R2M	8.2±20%	27	4.2	3.40	8R2
SPE8040-100M	10±20%	30	3.6	3.30	100
SPE8040-150M	15±20%	48	2.9	2.60	150
SPE8040-220M	22±20%	69	2.3	2.10	220
SPE8040-330M	33±20%	100	1.9	1.80	330
SPE8040-470M	47±20%	137	1.6	1.50	470
SPE8040-560M	56±20%	164	1.4	1.30	560
SPE8040-680M	68±20%	200	1.3	1.20	680
SPE8040-820M	82±20%	240	1.2	1.10	820
SPE8040-101M	100±20%	290	1.1	1.0	101
SPE8040-121M	120±20%	340	1.0	-	121
SPE8040-221M	220±20%	640	0.7	-	221
SPE8040-331M	330±20%	1,000	0.6	-	331

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

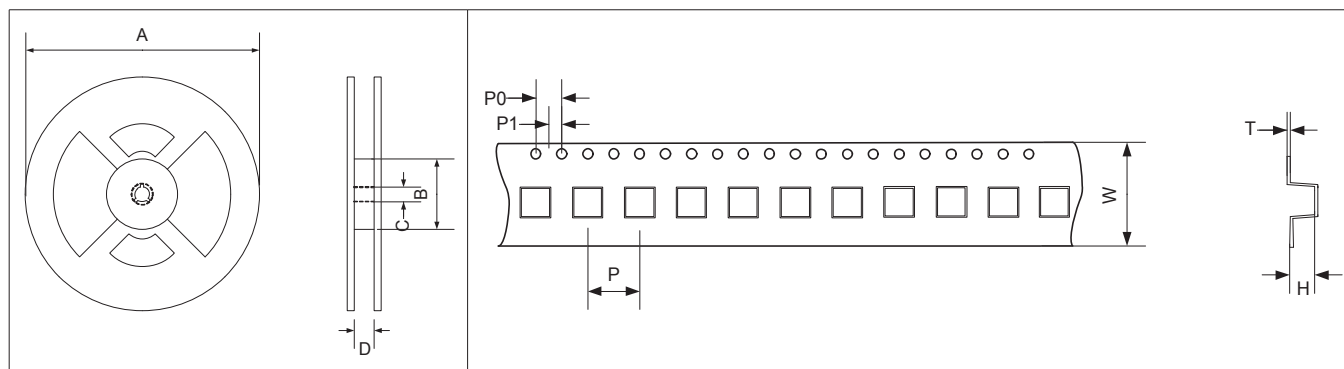
*Bias Current : Agilent 4285A + Agilent 42841A

*Temperature rise current : DC current that causes the temperature rise (ΔT =40°C) from 25°C ambient.

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

TAPE AND REEL SPECIFICATIONS



MODEL	REEL PACKING (QTY/REEL)	REEL Dimensions(REF)				Tape Dimensions(REF)					
		A	B	C	D	W	P	P ₀	P ₁	H	T
SPE3012	2,000	180	60	13	10	8.0	4.0	4.0	2.0	2.0	0.3
SPE3015	2,000	180	60	13	10	8.0	4.0	4.0	2.0	2.0	0.3
SPE4020	3,000	330	80	13	13	12.0	8.0	4.0	2.0	2.4	0.3
SPE4030	2,500	330	80	13	13	12.0	8.0	4.0	2.0	3.15	0.3
SPE5020	3,000	330	80	13	13	12.0	8.0	4.0	2.0	2.1	0.3
SPE5040	2,000	330	80	13	13	12.0	8.0	4.0	2.0	4.4	0.4
SPE6028	2,500	330	80	13	17	16.0	8.0	4.0	2.0	3.15	0.4
SPE6045	1,500	330	80	13	17	16.0	8.0	4.0	2.0	4.7	0.4
SPE8040	1,000	330	80	13	17	16.0	12.0	4.0	2.0	4.4	0.4

SMD High Current Inductors

Fixed Inductor for Surface Mounting

SPH4020

SMD Shielded type

UNIT : mm

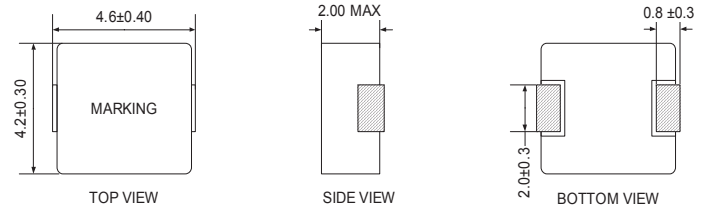
TYPE SPH4020

For Reflow Soldering

Frequency Range: 1kHz ~5MHz

Inductance Range: 0.47 ~ 10uH

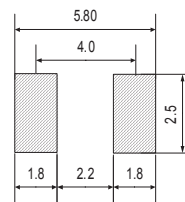
Dimensions



Features

- *Low profile (2.0mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion
- *Handles high transient current spikes without saturation
- *Ultra low buzz noise, due to composite construction
- *Pass the AEC-Q200 Certification Test

Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ,max)	Rated current (A,max)	Temperature rise current (A,max)	Marking
SPH4020-R47M	0.47±20%	14.0	9.5	7.5	R47
SPH4020-R56M	0.56±20%	16.0	9.0	7.0	R56
SPH4020-R68M	0.68±20%	18.0	8.0	6.5	R68
SPH4020-1R0M	1.0±20%	27.0	7.0	6.0	1R0
SPH4020-1R2M	1.2±20%	29.0	6.5	5.8	1R2
SPH4020-1R5M	1.5±20%	46.0	5.5	5.0	1R5
SPH4020-2R2M	2.2±20%	58.0	5.0	4.5	2R2
SPH4020-3R3M	3.3±20%	87.0	3.5	3.3	3R3
SPH4020-4R7M	4.7±20%	105	3.0	2.8	4R7
SPH4020-6R8M	6.8±20%	175	2.5	2.2	6R8
SPH4020-100M	10±20%	282	2.0	1.6	100

Standard Parts selection Guide

*Inductance : Agilent 4284A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Temperature rise current : DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 25°C ambient.

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD High Current Inductors

Fixed Inductor for Surface Mounting

SPH5030

SMD Shielded type

UNIT : mm

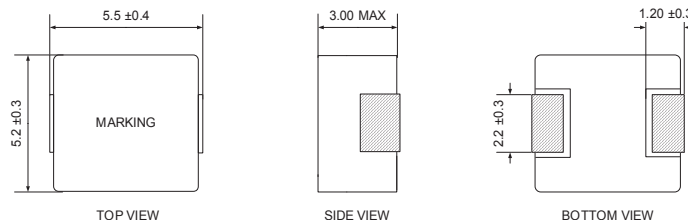
TYPE SPH5030

For Reflow Soldering

Frequency Range: 1kHz ~5MHz

Inductance Range: 0.47 ~ 10uH

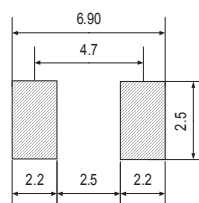
Dimensions



Features

- *Low profile (3.0mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion
- *Handles high transient current spikes without saturation
- *Ultra low buzz noise, due to composite construction
- *Pass the AEC-Q200 Certification Test

Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ,max)	Rated current (A,max)	Temperature rise current (A,max)	Marking
SPH5030-R47M	0.47±20%	8.5	15.0	11.0	R47
SPH5030-R68M	0.68±20%	12.0	11.5	9.0	R68
SPH5030-1R0M	1.0±20%	14.0	10.0	8.5	1R0
SPH5030-1R2M	1.2±20%	16.0	9.5	8.3	1R2
SPH5030-1R5M	1.5±20%	25.0	9.0	8.2	1R5
SPH5030-2R2M	2.2±20%	29.0	7.0	6.5	2R2
SPH5030-3R3M	3.3±20%	38.0	6.0	5.5	3R3
SPH5030-4R7M	4.7±20%	60.0	4.6	4.3	4R7
SPH5030-6R8M	6.8±20%	90.0	3.6	3.4	6R8
SPH5030-100M	10±20%	125	3.4	3.2	100

Standard Parts selection Guide

*Inductance : Agilent 4284A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Temperature rise current : DC current that causes the temperature rise (ΔT =40°C) from 25°C ambient.

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD High Current Inductors

Fixed Inductor for Surface Mounting

SPH7030

SMD Shielded type

UNIT : mm

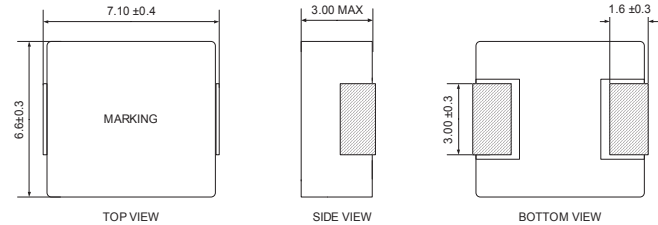
TYPE SPH7030

For Reflow Soldering

Frequency Range: 1kHz ~5MHz

Inductance Range: 0.22 ~ 47uH

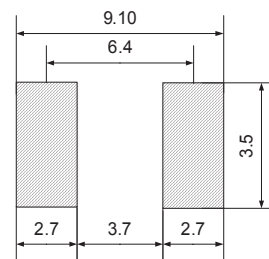
Dimensions



Features

- *Low profile (3.0mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion
- *Handles high transient current spikes without saturation
- *Ultra low buzz noise, due to composite construction
- *Pass the AEC-Q200 Certification Test

Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ,max)	Rated current (A,max)	Temperature rise current (A,max)	Marking
SPH7030-R22M	0.22±20%	3.0	34.0	24	R22
SPH7030-R47M	0.47±20%	4.1	20.0	18	R47
SPH7030-R68M	0.68±20%	5.3	17.0	16	R68
SPH7030-1R0M	1.0±20%	7.4	15.0	12	1R0
SPH7030-1R5M	1.5±20%	12.1	12.0	10	1R5
SPH7030-2R2M	2.2±20%	15.0	10.0	9.5	2R2
SPH7030-3R3M	3.3±20%	22.0	9.5	8.5	3R3
SPH7030-4R7M	4.7±20%	33.0	9.0	6.0	4R7
SPH7030-5R6M	5.6±20%	42.0	6.5	5.0	5R6
SPH7030-6R8M	6.8±20%	48.0	6.0	4.8	6R8
SPH7030-8R2M	8.2±20%	60.0	5.5	4.6	8R2
SPH7030-100M	10±20%	68.0	5.2	4.5	100
SPH7030-150M	15±20%	113.0	4.0	3.0	150
SPH7030-220M	22±20%	170.0	3.0	2.5	220
SPH7030-330M	33±20%	270.0	2.5	2.0	330
SPH7030-470M	47±20%	385.0	2.0	1.5	470

Standard Parts selection Guide

*Inductance : Agilent 4284A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Temperature rise current : DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 25°C ambient.

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD High Current Inductors

Fixed Inductor for Surface Mounting

SPH10040

SMD Shielded type

UNIT : mm

TYPE SPH10040

For Reflow Soldering

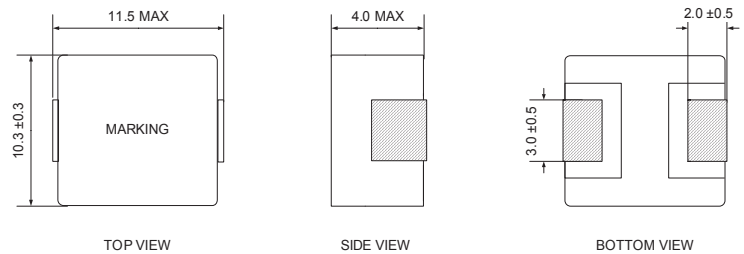
Frequency Range: 1kHz ~5MHz

Inductance Range: 0.47 ~ 47uH

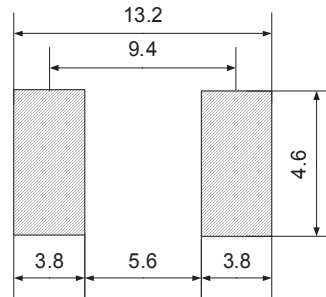
Features

- *Low profile (4.0mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion
- *Handles high transient current spikes without saturation
- *Ultra low buzz noise, due to composite construction
- *Pass the AEC-Q200 Certification Test

Dimensions



Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ,max)	Rated current (A,max)	Temperature rise current (A,max)	Marking
SPH10040-R47M	0.47±20%	1.7	40.0	30.0	R47
SPH10040-R56M	0.56±20%	2.0	33.0	25.0	R56
SPH10040-R68M	0.68±20%	2.4	30.0	23.0	R68
SPH10040-1R0M	1.0±20%	3.3	28.0	19.0	1R0
SPH10040-1R5M	1.5±20%	4.2	24.0	16.0	1R5
SPH10040-2R2M	2.2±20%	7.0	16.5	12.0	2R2
SPH10040-3R3M	3.3±20%	11.8	16.0	11.0	3R3
SPH10040-4R7M	4.7±20%	20.0	13.0	9.0	4R7
SPH10040-6R8M	6.8±20%	25.0	12.0	8.5	6R8
SPH10040-8R2M	8.2±20%	27.0	9.0	8.0	8R2
SPH10040-100M	10±20%	30.0	8.5	7.8	100
SPH10040-150M	15±20%	45.0	7.0	6.5	150
SPH10040-220M	22±20%	66.0	5.5	5.0	220
SPH10040-330M	33±20%	92.0	4.8	4.4	330
SPH10040-470M	47±20%	145.0	3.5	3.3	470

Standard Parts selection Guide

*Inductance : Agilent 4284A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Temperature rise current : DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 25°C ambient.

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPH13050

SMD Shielded type

UNIT : mm

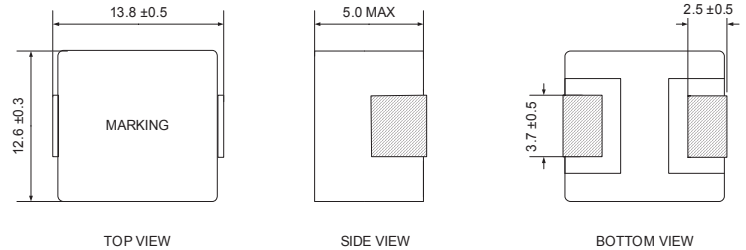
TYPE SPH13050

For Reflow Soldering

Frequency Range: 1kHz ~5MHz

Inductance Range: 0.68 ~ 47uH

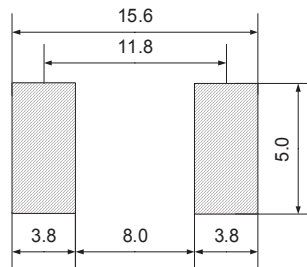
Dimensions



Features

- *Low profile (5.0mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion
- *Handles high transient current spikes without saturation
- *Ultra low buzz noise, due to composite construction

Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ,max)	Rated current (A,max)	Temperature rise current (A,max)	Marking
SPH13050-R68M	0.68±20%	1.55	46.0	33.0	R68
SPH13050-1R0M	1.0±20%	2.2	35.0	26.0	1R0
SPH13050-2R2M	2.2±20%	5.0	24.0	15.0	2R2
SPH13050-3R3M	3.3±20%	7.0	22.0	14.0	3R3
SPH13050-4R7M	4.7±20%	9.0	20.0	13.0	4R7
SPH13050-6R8M	6.8±20%	18.0	16.0	12.0	6R8
SPH13050-100M	10±20%	22.0	12.0	9.0	100
SPH13050-220M	22±20%	58.0	6.5	4.5	220
SPH13050-330M	33±20%	84.0	6.0	3.5	330
SPH13050-470M	47±20%	130.0	5.0	3.0	470

Standard Parts selection Guide

*Inductance : Agilent 4284A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

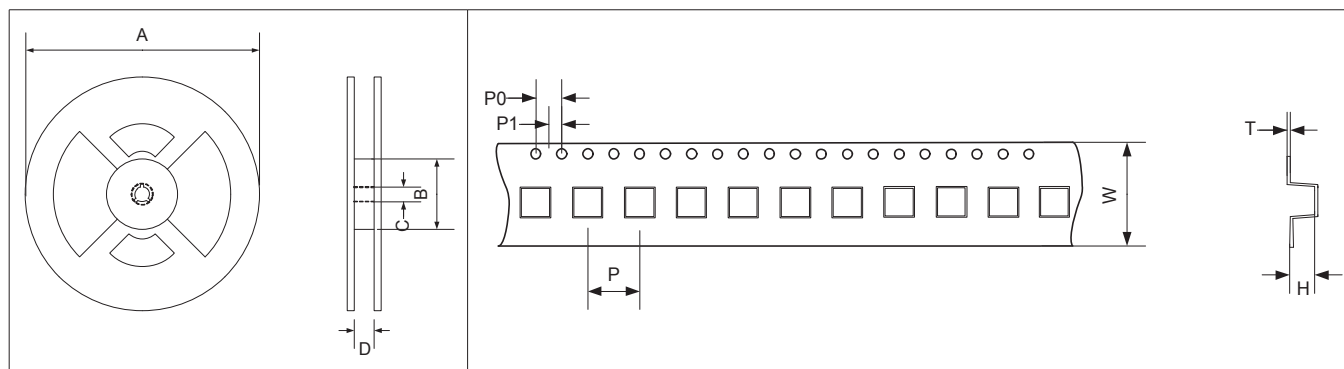
*Bias Current : Agilent 4285A + Agilent 42841A

*Temperature rise current : DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 25°C ambient.

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

TAPE AND REEL SPECIFICATIONS



MODEL	REEL PACKING (QTY/REEL)	REEL Dimensions(REF)				Tape Dimensions(REF)					
		A	B	C	D	W	P	P ₀	P ₁	H	T
SPH4020	3,000	330	100	13	13	12	8	4	2	2.3	0.35
SPH5030	2,000	330	100	13	13	12	8	4	2	3.3	0.35
SPH7030	1,500	330	100	13	17	16	12	4	2	3.3	0.35
SPH10040	500	330	100	13	25	24	16	4	2	4.3	0.4
SPH13050	500	330	100	13	25	24	16	4	2	5.3	0.4

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPS7045

SMD Shielded type

UNIT : mm

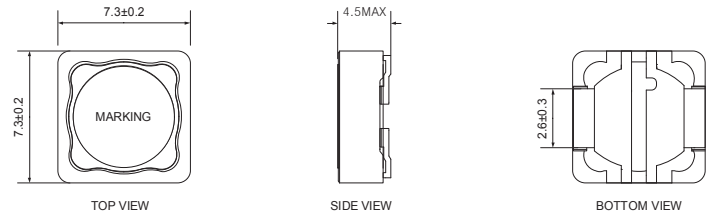
TYPE SPS7045

For Reflow Soldering

Frequency Range: 1kHz ~5MHz

Inductance Range: 1.2 ~ 2,200uH

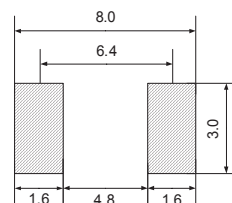
Dimensions



Features

- *Low profile (4.5mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion

Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (A,max)	Marking
SPS7045-1R2N	1.2±30%	18	8.0	1R2
SPS7045-1R8N	1.8±30%	20	6.0	1R8
SPS7045-2R2N	2.2±30%	22	5.0	2R2
SPS7045-3R3N	3.3±30%	25	4.5	3R3
SPS7045-4R7M	4.7±20%	32	3.7	4R7
SPS7045-5R6M	5.6±20%	34	3.4	5R6
SPS7045-6R8M	6.8±20%	38	3.1	6R8
SPS7045-8R2M	8.2±20%	42	3.0	8R2
SPS7045-100M	10±20%	48	2.7	100
SPS7045-120M	12±20%	58	2.5	120
SPS7045-150M	15±20%	64	2.1	150
SPS7045-220M	22±20%	95	1.9	220
SPS7045-270M	27±20%	110	1.7	270
SPS7045-330M	33±20%	130	1.5	330
SPS7045-470M	47±20%	180	1.2	470
SPS7045-560M	56±20%	215	1.1	560
SPS7045-680M	68±20%	288	1.0	680
SPS7045-820M	82±20%	316	0.90	820
SPS7045-101M	100±20%	395	0.80	101
SPS7045-221M	220±20%	740	0.60	221
SPS7045-471M	470±20%	1.4Ω	0.40	471
SPS7045-681M	680±20%	2.3Ω	0.30	681
SPS7045-222M	2,200±20%	8.3Ω	0.15	222

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPS7060

SMD Shielded type

UNIT : mm

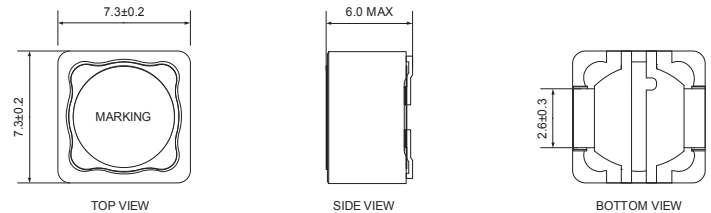
TYPE SPS7060

For Reflow Soldering

Frequency Range: 1kHz ~5MHz

Inductance Range: 1.0 ~ 330uH

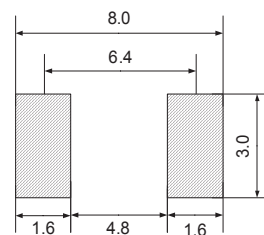
Dimensions



Features

- *Low profile (6.0mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion

Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (A,max)	Marking
SPS7060-1R0N	1.0±30%	21.5	8.5	1R0
SPS7060-1R8N	1.8±30%	25.0	8.0	1R8
SPS7060-2R7N	2.7±30%	28.0	6.0	2R7
SPS7060-3R3N	3.3±30%	31.5	5.2	3R3
SPS7060-4R7M	4.7±20%	37.5	4.0	4R7
SPS7060-5R6M	5.6±20%	41	3.8	5R6
SPS7060-6R8M	6.8±20%	43	3.3	6R8
SPS7060-8R2M	8.2±20%	47	3.2	8R2
SPS7060-100M	10±20%	50	3.1	100
SPS7060-120M	12±20%	57	3.0	120
SPS7060-150M	15±20%	68	2.4	150
SPS7060-220M	22±20%	105	2.0	220
SPS7060-270M	27±20%	120	1.8	270
SPS7060-330M	33±20%	130	1.6	330
SPS7060-470M	47±20%	190	1.3	470
SPS7060-560M	56±20%	220	1.2	560
SPS7060-680M	68±20%	295	1.1	680
SPS7060-820M	82±20%	320	1.0	820
SPS7060-101M	100±20%	435	0.9	101
SPS7060-221M	220±20%	665	0.6	221
SPS7060-331M	330±20%	990	0.5	331

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPS10050

SMD Shielded type

UNIT : mm

TYPE SPS10050

For Reflow Soldering

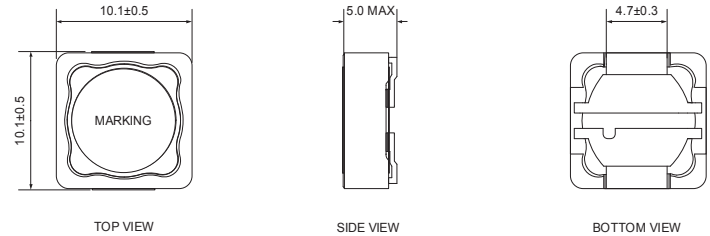
Frequency Range: 1kHz ~5MHz

Inductance Range: 1.2 ~ 1,000uH

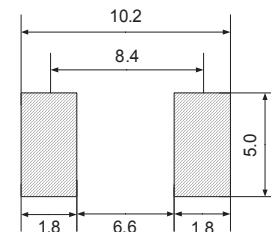
Features

- *Low profile (5.0mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion

Dimensions



Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (A,max)	Marking
SPS10050-1R2N	1.2±30%	12	9.0	1R2
SPS10050-2R0N	2.0±30%	14	8.5	2R0
SPS10050-2R7N	2.7±30%	15	8.0	2R7
SPS10050-3R3N	3.3±30%	17	6.7	3R3
SPS10050-4R7M	4.7±20%	20	5.0	4R7
SPS10050-5R6M	5.6±20%	24	4.9	5R6
SPS10050-6R8M	6.8±20%	25	4.8	6R8
SPS10050-100M	10±20%	30	3.8	100
SPS10050-150M	15±20%	45	3.3	150
SPS10050-180M	18±20%	65	3.1	180
SPS10050-220M	22±20%	68	3.0	220
SPS10050-330M	33±20%	92	2.3	330
SPS10050-470M	47±20%	115	2.0	470
SPS10050-560M	56±20%	142	1.9	560
SPS10050-680M	68±20%	158	1.8	680
SPS10050-101M	100±20%	225	1.4	101
SPS10050-221M	220±20%	514	1.1	221
SPS10050-331M	330±20%	772	0.8	331
SPS10050-681M	680±20%	1,450	0.6	681
SPS10050-102M	1,000±20%	2,400	0.45	102

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPS10050M

SMD Shielded type

UNIT : mm

TYPE SPS10050M

For Reflow Soldering

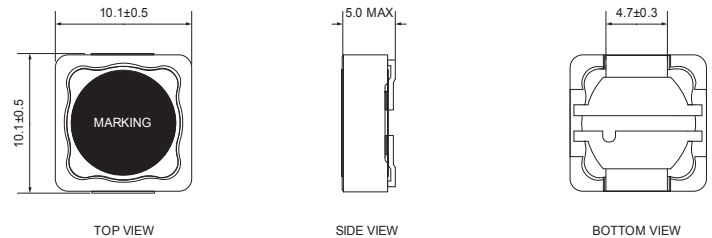
Frequency Range: 1kHz ~5MHz

Inductance Range: 1.2 ~ 1.000uH

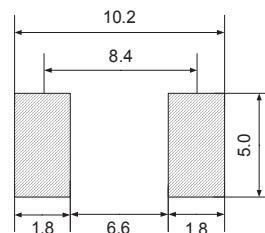
Features

- *Low profile (5.0mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion

Dimensions



Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (A,max)	Marking
SPS10050M-1R2N	1.2±30%	12	12.0	1R2
SPS10050M-2R2N	2.2±30%	16	10.0	2R2
SPS10050M-100M	10±20%	30	6.0	100
SPS10050M-220M	22±20%	68	4.5	220
SPS10050M-331M	330±20%	770	1.0	331
SPS10050M-102M	1,000±20%	2.5Ω	0.50	102

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPS12060

SMD Shielded type

UNIT : mm

TYPE SPS12060

For Reflow Soldering

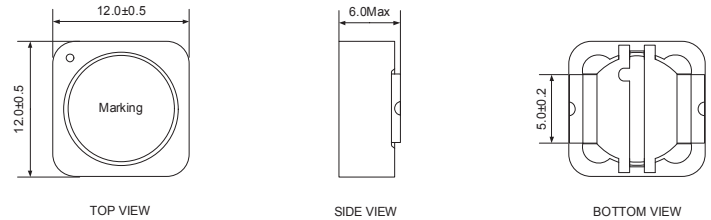
Frequency Range: 1kHz ~5MHz

Inductance Range: 2.4 ~ 470uH

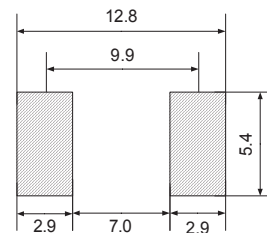
Features

- *Low profile (6.0mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion

Dimensions



Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (A,max)	Marking
SPS12060-2R4N	2.4±30%	12	8.0	2R4
SPS12060-4R7M	4.7±20%	15	5.5	4R7
SPS12060-5R6M	5.6±20%	24	5.2	5R6
SPS12060-8R2M	8.2±20%	26	5.1	8R2
SPS12060-100M	10±20%	28	5.0	100
SPS12060-120M	12±20%	30	4.8	120
SPS12060-150M	15±20%	34	4.6	150
SPS12060-220M	22±20%	48	3.2	220
SPS12060-330M	33±20%	54	2.5	330
SPS12060-470M	47±20%	82	2.0	470
SPS12060-560M	56±20%	120	1.8	560
SPS12060-680M	68±20%	129	1.7	680
SPS12060-820M	82±20%	142	1.5	820
SPS12060-101M	100±20%	181	0.9	101
SPS12060-121M	120±20%	208	0.8	121
SPS12060-221M	220±20%	350	0.7	221
SPS12060-471M	470±20%	700	0.6	471

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPS12060M

SMD Shielded type

UNIT : mm

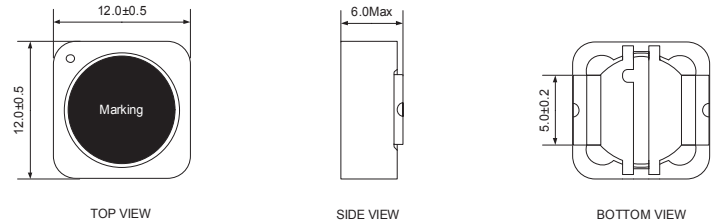
TYPE SPS12060M

For Reflow Soldering

Frequency Range: 1kHz ~5MHz

Inductance Range: 1.2uH ~ 220uH

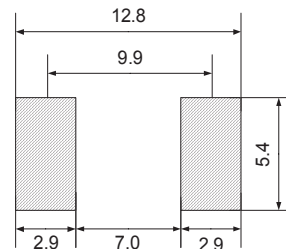
Dimensions



Features

- *Low profile (6.0mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion

Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (A,max)	Marking
SPS12060M-1R2N	1.2±30%	9	16	1R2
SPS12060M-2R0N	2.0±30%	12	11	2R0
SPS12060M-3R3N	3.3±30%	14	10	3R3
SPS12060M-4R7M	4.7±20%	16	9.5	4R7
SPS12060M-5R6M	5.6±20%	20	9.2	5R6
SPS12060M-6R8M	6.8±20%	22	9.0	6R8
SPS12060M-8R2M	8.2±20%	24	8.5	8R2
SPS12060M-100M	10±20%	26	8.0	100
SPS12060M-120M	12±20%	28	7.0	120
SPS12060M-150M	15±20%	35	6.5	150
SPS12060M-220M	22±20%	45	5.2	220
SPS12060M-330M	33±20%	68	5.0	330
SPS12060M-470M	47±20%	100	4.0	470
SPS12060M-560M	56±20%	108	3.8	560
SPS12060M-680M	68±20%	125	3.4	680
SPS12060M-820M	82±20%	135	3.0	820
SPS12060M-101M	100±20%	172	2.6	101
SPS12060M-221M	220±20%	388	2.0	221

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPS12080

SMD Shielded type

UNIT : mm

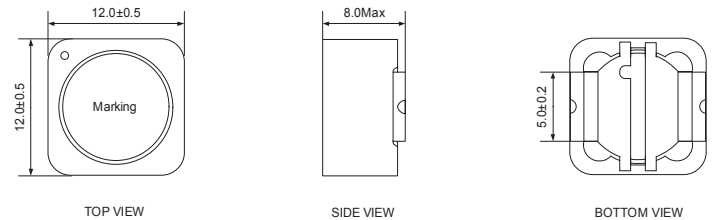
TYPE SPS12080

For Reflow Soldering

Frequency Range: 1kHz ~5MHz

Inductance Range: 2.4 ~ 1.000uH

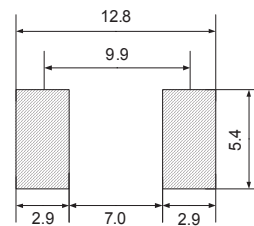
Dimensions



Features

- *Low profile (8.0mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion

Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (A,max)	Marking
SPS12080-2R4N	2.4±30%	15	10.0	2R4
SPS12080-3R3N	3.3±30%	18	9.0	3R3
SPS12080-4R7M	4.7±20%	19	8.5	4R7
SPS12080-6R8M	6.8±20%	22	8.2	6R8
SPS12080-8R2M	8.2±20%	24	7.0	8R2
SPS12080-100M	10±20%	25	6.7	100
SPS12080-120M	12±20%	26	6.5	120
SPS12080-150M	15±20%	28	5.5	150
SPS12080-180M	18±20%	34	5.0	180
SPS12080-220M	22±20%	38	4.8	220
SPS12080-330M	33±20%	45	3.5	330
SPS12080-470M	47±20%	65	3.0	470
SPS12080-560M	56±20%	72	2.7	560
SPS12080-680M	68±20%	98	2.4	680
SPS12080-820M	82±20%	106	2.2	820
SPS12080-101M	100±20%	150	2.1	101
SPS12080-221M	220±20%	280	1.7	221
SPS12080-331M	330±20%	430	1.4	331
SPS12080-561M	560±20%	665	0.9	561
SPS12080-102M	1000±20%	1100	0.7	102

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPS12080M

SMD Shielded type

UNIT : mm

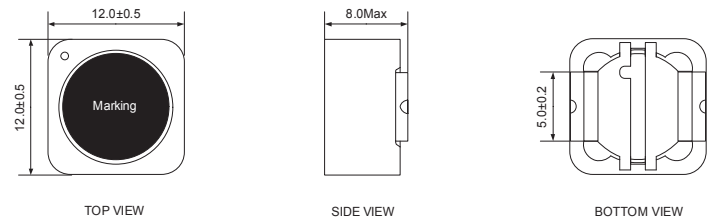
TYPE SPS12080M

For Reflow Soldering

Frequency Range: 1kHz ~5MHz

Inductance Range: 2.7uH ~ 560uH

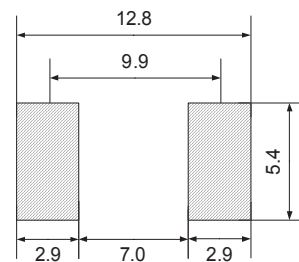
Dimensions



Features

- *Low profile (8.0mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion

Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (A,max)	Marking
SPS12080M-2R7N	2.7±30%	16	12	2R7
SPS12080M-3R6N	3.6±30%	18	11	3R6
SPS12080M-4R7M	4.7±20%	22	10	4R7
SPS12080M-100M	10±20%	26	9.5	100
SPS12080M-120M	12±20%	28	9.0	120
SPS12080M-150M	15±20%	32	8.5	150
SPS12080M-180M	18±20%	36	8.0	180
SPS12080M-220M	22±20%	40	7.2	220
SPS12080M-330M	33±20%	46	5.8	330
SPS12080M-470M	47±20%	68	4.8	470
SPS12080M-560M	56±20%	94	4.5	560
SPS12080M-680M	68±20%	100	3.8	680
SPS12080M-820M	82±20%	116	3.5	820
SPS12080M-101M	100±20%	154	3.2	101
SPS12080M-121M	120±20%	160	3.0	121
SPS12080M-221M	220±20%	275	2.3	221
SPS12080M-271M	270±20%	410	1.9	271
SPS12080M-561M	560±20%	670	1.3	561

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPS15080M

SMD Shielded type

UNIT : mm

TYPE SPS15080M

For Reflow Soldering

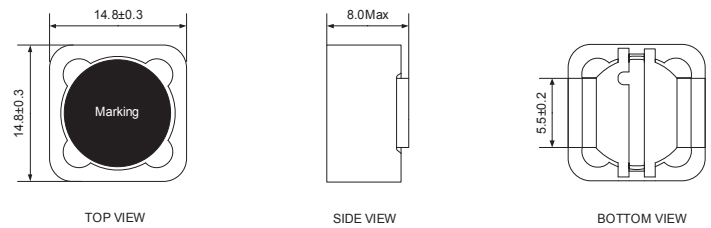
Frequency Range: 1kHz ~5MHz

Inductance Range: 2.0uH ~ 100uH

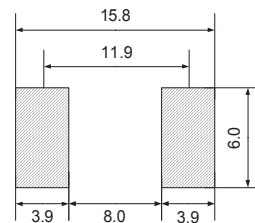
Features

- *Low profile (8.0mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion

Dimensions



Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (A,max)	Marking
SPS15080M-2R0N	2.0±30%	9	14	2R0
SPS15080M-3R3N	3.3±30%	10	13	3R3
SPS15080M-4R7M	4.7±20%	11	12.5	4R7
SPS15080M-5R6M	5.6±20%	12	12.0	5R6
SPS15080M-6R8M	6.8±20%	14	11.0	6R8
SPS15080M-100M	10±20%	17	10.0	100
SPS15080M-120M	12±20%	18	9.5	120
SPS15080M-150M	15±20%	22	8.5	150
SPS15080M-220M	22±20%	30	7.0	220
SPS15080M-330M	33±20%	38	6.0	330
SPS15080M-470M	47±20%	56	5.0	470
SPS15080M-560M	56±20%	62	4.6	560
SPS15080M-680M	68±20%	70	4.0	680
SPS15080M-820M	82±20%	75	3.6	820
SPS15080M-101M	100±20%	105	3.4	101

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

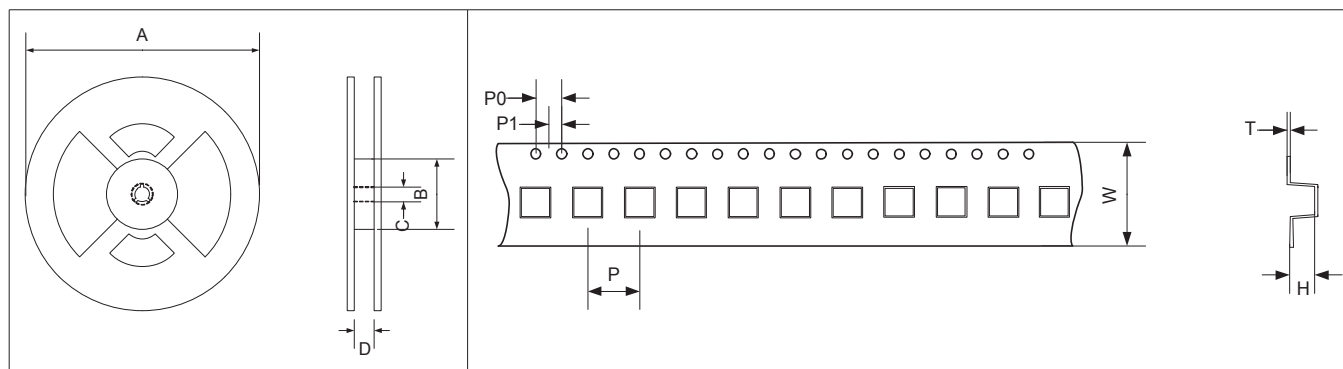
*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

TAPE AND REEL SPECIFICATIONS



MODEL	REEL PACKING (QTY/REEL)	REEL Dimensions(REF)				Tape Dimensions(REF)					
		A	B	C	D	W	P	P ₀	P ₁	H	T
SPS7045	1,000	330	80	13	17	16	12	4.0	2.0	5.0	0.4
SPS7060	1,000	330	80	13	17	16	12	4.0	2.0	6.2	0.4
SPS10050	600	330	80	13	25	24	16	4.0	2.0	6.0	0.4
SPS10050M	600	330	80	13	25	24	16	4.0	2.0	6.0	0.4
SPS12060	500	330	80	13	25	24	16	4.0	2.0	8.0	0.4
SPS12060M	500	330	80	13	25	24	16	4.0	2.0	8.0	0.4
SPS12080	500	330	80	13	25	24	16	4.0	2.0	9.0	0.4
SPS12080M	500	330	80	13	25	24	16	4.0	2.0	9.0	0.4
SPS15080M	300	330	80	13	25	24	16	4.0	2.0	9.0	0.4

POWER INDUCTOR INDUCTOR

Fixed Inductor for Surface Mounting

SPY5022

SMD Shielded type

UNIT : mm

TYPE SPY5022

For Reflow Soldering

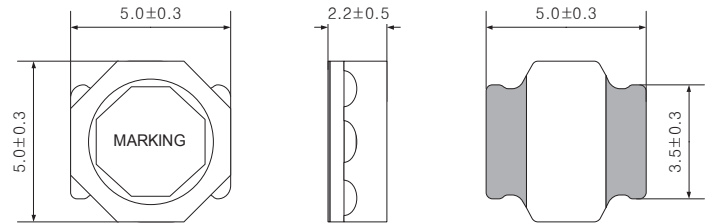
Frequency Range: 1kHz ~5MHz

Inductance Range: 2.2 ~ 100uH

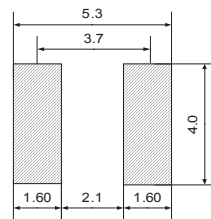
Features

- *Low profile (2.2mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion

Dimensions



Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ)	Rated current (A,max)	Marking
SPY5022-2R2N	2.2±30%	35±30%	3.3	2R2
SPY5022-4R7M	4.7±20%	65±30%	1.9	4R7
SPY5022-6R8M	6.8±20%	90±30%	1.3	6R8
SPY5022-100M	10±20%	117±30%	1.0	100
SPY5022-680M	68±20%	620±30%	0.4	680
SPY5022-101M	100±20%	940±20%	0.3	101

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

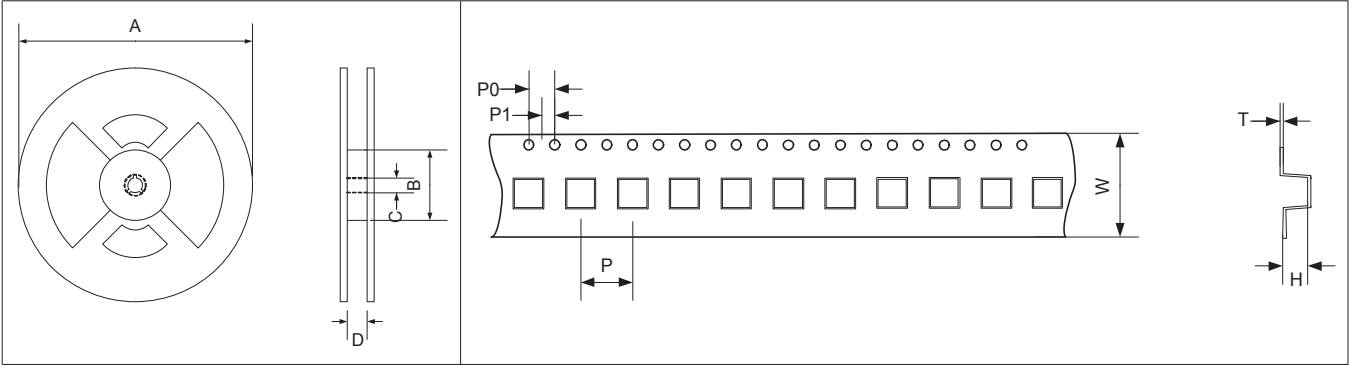
*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Inductance drop = 30% at rated current / criterion(measure of time) : within 3 seconds

Note: can purchase customizing type, please contact us.

TAPE AND REEL SPECIFICATIONS



MODEL	REEL PACKING (Q'TY/REEL)	REEL Dimensions(REF)				Tape Dimensions(REF)					
		A	B	C	D	W	P	P ₀	P ₁	H	T
SPY5022	3,000	330	80	13	13	12	8.0	4.0	2.0	2.5	0.3

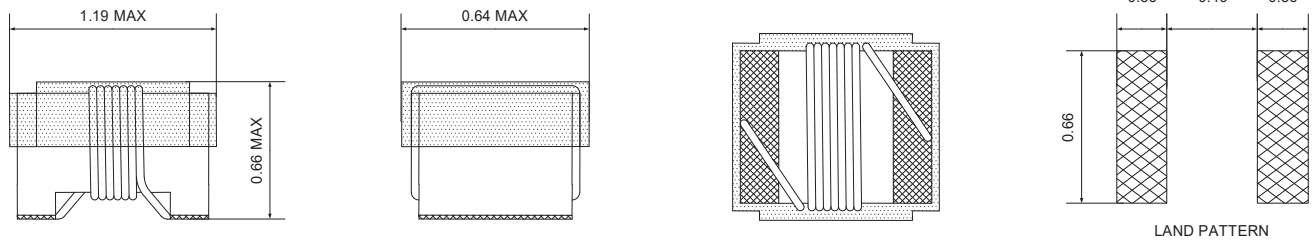
Winding Chip Inductors

SMD TYPE

0402CA Series(1005)

DIMENSIONS & SPECIFICATION

UNIT : mm



Ordering code	Inductance (nH)	Percent tolerance	Q min	SRF min(MHz)	DCR max (Ohms)	Irms(mA)
0402CA-1N0	1.0 @ 250MHz	S	16 @ 250MHz	12700	0.045	1360
0402CA-1N2	1.2 @ 250MHz	S	12 @ 250MHz	12900	0.090	740
0402CA-1N5	1.5 @ 250MHz	S	10 @ 250MHz	12900	0.140	640
0402CA-1N8	1.8 @ 250MHz	K, J	20 @ 250MHz	12000	0.043	950
0402CA-2N0	2.0 @ 250MHz	K, J	23 @ 250MHz	11300	0.043	950
0402CA-2N2	2.2 @ 250MHz	K, J	22 @ 250MHz	11100	0.058	820
0402CA-3N3	3.3 @ 250MHz	K, J	24 @ 250MHz	10800	0.063	790
0402CA-3N6	3.6 @ 250MHz	K, J	24 @ 250MHz	10500	0.063	790
0402CA-3N9	3.9 @ 250MHz	K, J	22 @ 250MHz	10400	0.063	790
0402CA-4N3	4.3 @ 250MHz	K, J	20 @ 250MHz	7000	0.070	750
0402CA-4N7	4.7 @ 250MHz	K, J	23 @ 250MHz	6800	0.120	570
0402CA-5N1	5.1 @ 250MHz	K, J	25 @ 250MHz	6000	0.100	620
0402CA-5N6	5.6 @ 250MHz	K, J	24 @ 250MHz	6000	0.078	710
0402CA-6N2	6.2 @ 250MHz	K, J	25 @ 250MHz	6000	0.078	710
0402CA-6N8	6.8 @ 250MHz	J, G	25 @ 250MHz	6000	0.105	610
0402CA-7N5	7.5 @ 250MHz	J, G	25 @ 250MHz	5000	0.12	570
0402CA-8N2	8.2 @ 250MHz	J, G	24 @ 250MHz	5500	0.11	590
0402CA-9N1	9.1 @ 250MHz	J, G	26 @ 250MHz	5500	0.11	590
0402CA-10N	10 @ 250MHz	J, G	26 @ 250MHz	5500	0.15	510
0402CA-11N	11 @ 250MHz	J, G	24 @ 250MHz	5500	0.12	570
0402CA-12N	12 @ 250MHz	J, G	26 @ 250MHz	5500	0.12	570
0402CA-13N	13 @ 250MHz	J, G	26 @ 250MHz	5000	0.18	460
0402CA-15N	15 @ 250MHz	J, G	25 @ 250MHz	5000	0.21	430
0402CA-16N	16 @ 250MHz	J, G	25 @ 250MHz	4500	0.28	430
0402CA-18N	18 @ 250MHz	J, G	26 @ 250MHz	4500	0.28	370
0402CA-20N	20 @ 250MHz	J, G	26 @ 250MHz	4000	0.24	370
0402CA-22N	22 @ 250MHz	J, G	25 @ 250MHz	4000	0.36	400
0402CA-24N	24 @ 250MHz	J, G	25 @ 250MHz	3500	0.36	330
0402CA-27N	27 @ 250MHz	J, G	25 @ 250MHz	3500	0.38	330
0402CA-30N	30 @ 250MHz	J, G	25 @ 250MHz	3300	0.38	320
0402CA-33N	33 @ 250MHz	J, G	24 @ 250MHz	3200	0.55	320
0402CA-36N	36 @ 250MHz	J, G	25 @ 250MHz	3100	0.6	260
0402CA-39N	39 @ 250MHz	J, G	25 @ 250MHz	3000	0.6	250
0402CA-43N	43 @ 250MHz	J, G	25 @ 250MHz	3000	0.68	250
0402CA-47N	47 @ 250MHz	J, G	25 @ 250MHz	2900	0.95	240
0402CA-51N	51 @ 250MHz	J, G	25 @ 250MHz	2850	1.05	200
0402CA-56N	56 @ 250MHz	J, G	25 @ 250MHz	2800	1.05	200
0402CA-68N	68 @ 250MHz	J, G	24 @ 250MHz	2500	1.75	170
0402CA-82N	82 @ 250MHz	J, G	24 @ 250MHz	2300	1.95	140
0402CA-R10	100 @ 250MHz	J, G	24 @ 250MHz	1500	2.06	130
0402CA-R12	120 @ 250MHz	J, G	24 @ 250MHz	1000	2.66	110

Tolerance: G:±2%, J:±5%, K:±10%, S:±0.3nH

Standard Parts selection Guide

*TEST Equipments : L, Q TEST BY HP 4286A / DCR TEST BY ABM3245

SRF TEST BY HP 8753E

*Irms : Current that causes a 15°C temperature rise from 25°C ambient.

Note: It is developing excepts the thing which we produced

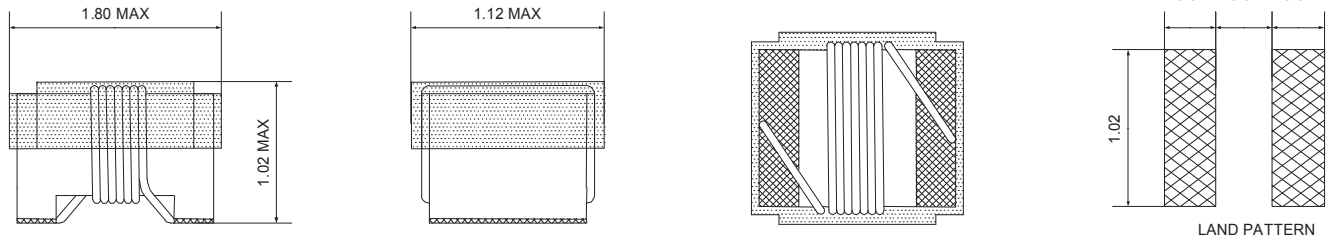
Winding Chip Inductors

SMD TYPE

0603CS Series(1608)

DIMENSIONS & SPECIFICATION

UNIT : mm



Ordering code	Inductance (nH)	Percent tolerance	Q min	SRF min(MHz)	DCR max (Ohms)	Irms(mA)
0603CS-1N6	1.6 @ 250MHz	K, J	24 @ 250MHz	12500	0.030	700
0603CS-1N8	1.8 @ 250MHz	K, J	16 @ 250MHz	12500	0.045	700
0603CS-3N6	3.6 @ 250MHz	K, J	22 @ 250MHz	5900	0.063	700
0603CS-3N9	3.9 @ 250MHz	K, J	22 @ 250MHz	6900	0.08	700
0603CS-4N3	4.3 @ 250MHz	K, J	22 @ 250MHz	5900	0.063	700
0603CS-4N7	4.7 @ 250MHz	K, J	20 @ 250MHz	5800	0.116	700
0603CS-5N1	5.1 @ 250MHz	K, J	20 @ 250MHz	5700	0.14	700
0603CS-5N6	5.6 @ 250MHz	K, J, G	18 @ 250MHz	4760	0.15	700
0603CS-6N8	6.8 @ 250MHz	K, J, G	27 @ 250MHz	5800	0.11	700
0603CS-7N5	7.5 @ 250MHz	K, J, G	28 @ 250MHz	4800	0.106	700
0603CS-8N2	8.2 @ 250MHz	K, J, G	28 @ 250MHz	4200	0.120	700
0603CS-8N7	8.7 @ 250MHz	K, J, G	28 @ 250MHz	4600	0.109	700
0603CS-9N5	9.5 @ 250MHz	J, G	28 @ 250MHz	5400	0.135	700
0603CS-10N	10 @ 250MHz	J, G	31 @ 250MHz	4800	0.13	700
0603CS-11N	11 @ 250MHz	J, G	33 @ 250MHz	4000	0.13	700
0603CS-12N	12 @ 250MHz	J, G	35 @ 250MHz	4000	0.13	700
0603CS-15N	15 @ 250MHz	J, G	35 @ 250MHz	4000	0.17	700
0603CS-16N	16 @ 250MHz	J, G	34 @ 250MHz	3300	0.104	700
0603CS-18N	18 @ 250MHz	J, G	35 @ 250MHz	3100	0.17	700
0603CS-22N	22 @ 250MHz	J, G	38 @ 250MHz	3000	0.19	700
0603CS-24N	24 @ 250MHz	J, G	37 @ 250MHz	2650	0.19	700
0603CS-27N	27 @ 250MHz	J, G	40 @ 250MHz	2800	0.22	600
0603CS-30N	30 @ 250MHz	J, G	37 @ 250MHz	2250	0.22	600
0603CS-33N	33 @ 250MHz	J, G	40 @ 250MHz	2300	0.22	600
0603CS-36N	36 @ 250MHz	J, G	38 @ 250MHz	2080	0.25	600
0603CS-39N	39 @ 250MHz	J, G	40 @ 250MHz	2200	0.25	600
0603CS-43N	43 @ 250MHz	J, G	39 @ 250MHz	2000	0.28	600
0603CS-47N	47 @ 200MHz	J, G	38 @ 200MHz	1900	0.28	600
0603CS-51N	51 @ 200MHz	J, G	35 @ 200MHz	1900	0.28	600
0603CS-56N	56 @ 200MHz	J, G	38 @ 200MHz	1700	0.31	600
0603CS-68N	68 @ 200MHz	J, G	37 @ 200MHz	1700	0.34	600
0603CS-82N	82 @ 150MHz	J, G	34 @ 150MHz	1700	0.54	400
0603CS-R10	100 @ 150MHz	J, G	34 @ 150MHz	1400	0.58	400
0603CS-R11	110 @ 150MHz	J, G	32 @ 150MHz	1350	0.61	300
0603CS-R12	120 @ 150MHz	J, G	32 @ 150MHz	1300	0.75	300
0603CS-R15	150 @ 150MHz	J, G	28 @ 150MHz	990	0.92	280
0603CS-R18	180 @ 100MHz	J, G	25 @ 100MHz	990	1.25	240
0603CS-R20	200 @ 100MHz	J, G	25 @ 100MHz	900	1.95	200
0603CS-R22	220 @ 100MHz	J, G	25 @ 100MHz	900	2.1	200
0603CS-R25	250 @ 100MHz	J, G	25 @ 100MHz	822	3.55	120
0603CS-R27	270 @ 100MHz	J, G	24 @ 100MHz	520	2.30	170
0603CS-R33	330 @ 100MHz	J, G	24 @ 100MHz	500	3.63	160
0603CS-R39	390 @ 100MHz	J, G	22 @ 100MHz	400	3.70	130

Standard Parts selection Guide

Tolerance: G:±2%, J:±5%, K:±10%, S:±0.3nH

*TEST Equipments : L, Q TEST BY HP 4286A / DCR TEST BY ABM3245

SRF TEST BY HP 8753E

*Irms : Current that causes a 15°C temperature rise from 25°C ambient.

Note : Can purchase customizing type, please contact us.

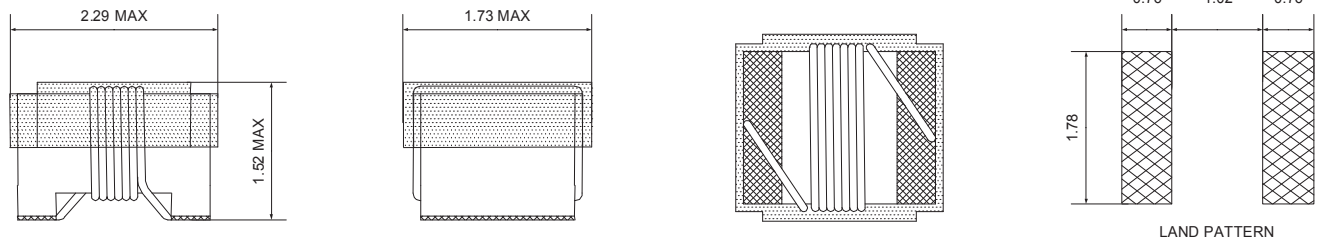
Winding Chip Inductors

SMD TYPE

0805CS Series(2012)

DIMENSIONS & SPECIFICATION

UNIT : mm



Ordering code	Inductance (nH)	Percent tolerance	Q min	SRF min(MHz)	DCR max (Ohms)	Irms(mA)
0805CS-2N7	2.7 @ 250MHz	J, K	50 @ 250MHz	7900	0.06	800
0805CS-2N9	2.9 @ 250MHz	J, K	50 @ 250MHz	7900	0.06	800
0805CS-3N0	3.0 @ 250MHz	J, K	50 @ 250MHz	7900	0.06	800
0805CS-3N3	3.3 @ 250MHz	J, K	50 @ 250MHz	7900	0.08	600
0805CS-5N6	5.6 @ 250MHz	J, K	65 @ 250MHz	5500	0.08	600
0805CS-6N2	6.2 @ 250MHz	J, K	50 @ 250MHz	5500	0.10	600
0805CS-6N8	6.8 @ 250MHz	J, K	50 @ 250MHz	5500	0.11	600
0805CS-7N5	7.5 @ 250MHz	J, K	50 @ 250MHz	4500	0.14	600
0805CS-8N2	8.2 @ 250MHz	J, K	50 @ 250MHz	4400	0.12	600
0805CS-10N	10 @ 250MHz	J, K	60 @ 250MHz	4200	0.10	600
0805CS-12N	12 @ 250MHz	J, K	50 @ 250MHz	4000	0.15	600
0805CS-15N	15 @ 250MHz	G, J, K	50 @ 250MHz	3200	0.17	600
0805CS-18N	18 @ 250MHz	G, J, K	50 @ 250MHz	3100	0.20	600
0805CS-22N	22 @ 250MHz	G, J, K	55 @ 250MHz	2600	0.22	500
0805CS-24N	24 @ 250MHz	G, J, K	50 @ 250MHz	2000	0.22	500
0805CS-27N	27 @ 250MHz	G, J, K	55 @ 250MHz	2500	0.25	500
0805CS-33N	33 @ 250MHz	G, J, K	60 @ 250MHz	2050	0.27	500
0805CS-39N	39 @ 250MHz	G, J, K	60 @ 250MHz	1850	0.27	500
0805CS-43N	43 @ 200MHz	G, J, K	60 @ 200MHz	1650	0.34	500
0805CS-47N	47 @ 200MHz	G, J, K	60 @ 200MHz	1650	0.31	500
0805CS-56N	56 @ 200MHz	G, J, K	60 @ 200MHz	1550	0.34	500
0805CS-68N	68 @ 200MHz	G, J, K	60 @ 200MHz	1450	0.38	500
0805CS-82N	82 @ 150MHz	G, J, K	65 @ 150MHz	1300	0.42	400
0805CS-91N	91 @ 150MHz	G, J, K	65 @ 150MHz	1200	0.48	400
0805CS-R10	100 @ 150MHz	G, J, K	65 @ 150MHz	1200	0.46	400
0805CS-R12	120 @ 150MHz	G, J, K	50 @ 150MHz	1100	0.51	400
0805CS-R15	150 @ 100MHz	G, J, K	50 @ 100MHz	920	0.56	400
0805CS-R18	180 @ 100MHz	G, J, K	50 @ 100MHz	870	0.64	400
0805CS-R22	220 @ 100MHz	G, J, K	50 @ 100MHz	820	0.7	400
0805CS-R24	240 @ 100MHz	G, J, K	44 @ 100MHz	690	1.0	350
0805CS-R27	270 @ 100MHz	G, J, K	48 @ 100MHz	650	1.0	350
0805CS-R30	300 @ 150MHz	G, J, K	25 @ 150MHz	450	1.4	310
0805CS-R33	330 @ 100MHz	G, J, K	48 @ 100MHz	600	1.4	310
0805CS-R39	390 @ 100MHz	G, J, K	48 @ 100MHz	560	1.5	290
0805CS-R47	470 @ 50MHz	G, J, K	33 @ 50MHz	375	1.76	250
0805CS-R56	560 @ 25MHz	G, J, K	23 @ 25MHz	340	1.9	230
0805CS-R68	680 @ 25MHz	G, J, K	23 @ 25MHz	188	2.2	190
0805CS-R82	820 @ 25MHz	G, J, K	23 @ 25MHz	215	2.35	180
0805CS-R91	910 @ 25MHz	G, J, K	22 @ 25MHz	250	2.35	170
0805CS-1R0	1000 @ 25MHz	G, J, K	20 @ 25MHz	220	2.5	170
0805CS-1R2	1200 @ 25MHz	G, J, K	20 @ 25MHz	180	2.9	150
0805CS-1R5	1500 @ 25MHz	G, J, K	20 @ 25MHz	160	3.3	150
0805CS-1R8	1800 @ 25MHz	G, J, K	20 @ 25MHz	130	3.5	150

Standard Parts selection Guide

Tolerance: G:±2%, J:±5%, K:±10%, S:±0.3nH

*TEST Equipments : L, Q TEST BY HP 4286A / DCR TEST BY ABM3245
SRF TEST BY HP 8753E

*Irms : Current that causes a 15°C temperature rise from 25°C ambient.

Note : Can purchase customizing type, please contact us.

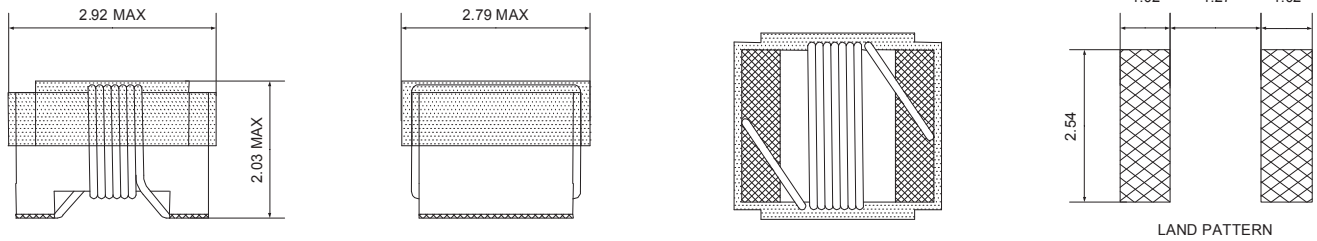
Winding Chip Inductors

SMD TYPE

1008CS Series(2520)

DIMENSIONS & SPECIFICATION

UNIT : mm



Ordering code	Inductance (nH)	Percent tolerance	Q min	SRF min(MHz)	DCR max (Ohms)	Irms(mA)
1008CS-10N	10 @ 50MHz	G,J,K	50 @ 50MHz	4100	0.08	1000
1008CS-12N	12 @ 50MHz	G,J,K	50 @ 50MHz	3300	0.09	1000
1008CS-15N	15 @ 50MHz	G,J,K	50 @ 50MHz	2500	0.10	1000
1008CS-18N	18 @ 50MHz	G,J,K	50 @ 350MHz	2500	0.11	1000
1008CS-22N	22 @ 50MHz	G,J,K	50 @ 350MHz	2400	0.12	1000
1008CS-27N	27 @ 50MHz	G,J,K	50 @ 350MHz	1600	0.13	1000
1008CS-33N	33 @ 50MHz	G,J,K	50 @ 350MHz	1600	0.14	1000
1008CS-39N	39 @ 50MHz	G,J,K	50 @ 350MHz	1500	0.15	1000
1008CS-47N	47 @ 50MHz	G,J,K	50 @ 350MHz	1500	0.16	1000
1008CS-56N	56 @ 50MHz	G,J,K	50 @ 350MHz	1300	0.18	1000
1008CS-68N	68 @ 50MHz	G,J,K	50 @ 350MHz	1300	0.20	1000
1008CS-82N	82 @ 50MHz	G,J,K	50 @ 350MHz	1000	0.22	1000
1008CS-R10	100 @ 25MHz	G,J,K	60 @ 350MHz	1000	0.56	650
1008CS-R12	120 @ 25MHz	G,J,K	60 @ 350MHz	950	0.63	650
1008CS-R15	150 @ 25MHz	G,J,K	45 @ 100MHz	850	0.70	580
1008CS-R18	180 @ 25MHz	G,J,K	45 @ 100MHz	750	0.77	620
1008CS-R20	200 @ 25MHz	G,J,K	45 @ 100MHz	750	0.81	500
1008CS-R22	220 @ 25MHz	G,J,K	45 @ 100MHz	700	0.84	500
1008CS-R27	270 @ 25MHz	G,J,K	45 @ 100MHz	600	0.91	500
1008CS-R33	330 @ 25MHz	G,J,K	45 @ 100MHz	570	1.05	450
1008CS-R39	390 @ 25MHz	G,J,K	45 @ 100MHz	500	1.12	470
1008CS-R47	470 @ 25MHz	G,J,K	45 @ 100MHz	450	1.19	470
1008CS-R56	560 @ 25MHz	G,J,K	45 @ 100MHz	415	1.33	400
1008CS-R62	620 @ 25MHz	G,J,K	45 @ 100MHz	375	1.40	360
1008CS-R68	680 @ 25MHz	G,J,K	45 @ 100MHz	375	1.47	400
1008CS-R75	750 @ 25MHz	G,J,K	45 @ 100MHz	360	1.54	360
1008CS-R82	820 @ 25MHz	G,J,K	45 @ 100MHz	350	1.61	400
1008CS-R91	910 @ 25MHz	G,J,K	35 @ 50MHz	320	1.68	380
1008CS-1R0	1000 @ 25MHz	G,J,K	35 @ 50MHz	290	1.75	370
1008CS-1R2	1200 @ 7.9MHz	G,J,K	35 @ 50MHz	250	2.0	310
1008CS-1R5	1500 @ 7.9MHz	G,J,K	28 @ 50MHz	200	2.3	330
1008CS-1R8	1800 @ 7.9MHz	G,J,K	28 @ 50MHz	160	2.6	300
1008CS-2R2	2200 @ 7.9MHz	G,J,K	28 @ 50MHz	160	2.8	280
1008CS-2R7	2700 @ 7.9MHz	G,J,K	22 @ 25MHz	140	3.2	290
1008CS-3R3	3300 @ 7.9MHz	G,J,K	22 @ 25MHz	110	3.4	290
1008CS-3R9	3900 @ 7.9MHz	G,J,K	20 @ 25MHz	100	3.6	260
1008CS-4R7	4700 @ 7.9MHz	G,J,K	20 @ 25MHz	90	4.0	260
1008CS-5R6	5600 @ 7.9MHz	G,J,K	16 @ 7.9MHz	45	4.6	240
1008CS-6R8	6800 @ 7.9MHz	G,J,K	18 @ 7.9MHz	40	4.9	200
1008CS-8R2	8200 @ 7.9MHz	G,J,K	18 @ 7.9MHz	25	6.0	170

Standard Parts selection Guide

Tolerance: G:±2%, J:±5%, K:±10%, S:±0.3nH

*TEST Equipments : L, Q TEST BY HP 4286A / DCR TEST BY ABM3245
SRF TEST BY HP 8753E

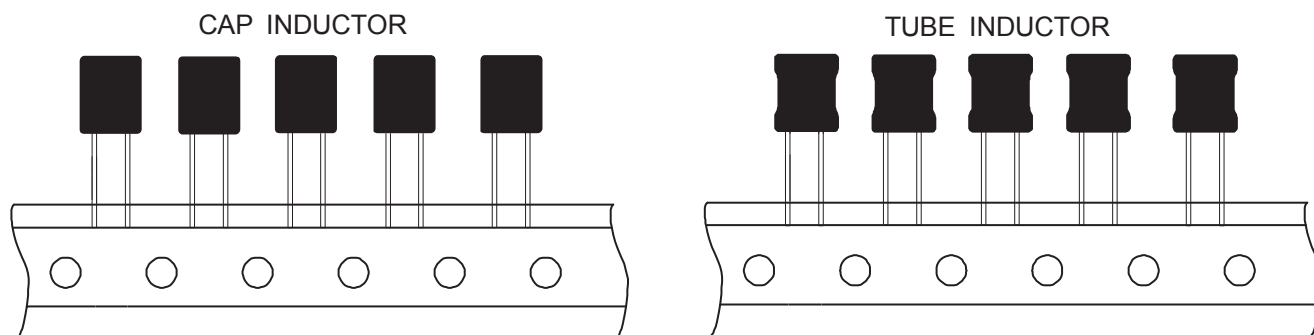
*Irms : Current that causes a 15°C temperature rise from 25°C ambient.

Note : Can purchase customizing type, please contact us.

DIP INDUCTOR

CAP / TUBE TYPE

1. FLOOR PLAN



2. FEATURES

- Inductor for digital amplifier LPF (Low pass filter)
- Operating temperature : -25°C ~ 105°C
- Withstanding voltage : AC 1.5kV 1 minute (Line - Line)
- Insulation resistance : 100M Ω Min. DC500V (Line - Line)

3. APPLICATIONS

- Inductor for digital amplifier, AV amplifier, Audio, etc.

4. SPECIFICATIONS

Image	Series	Part number	Φ	Height(max)	Inductance range
	CAP INDUCTOR	LS8Z	8 Φ	9.0	1.0~1.500
		LS10Z	10 Φ	14.0	1.0~1.500
	TUBE INDUCTOR	DPT0808	8 Φ	13	1.0~10,000
		DPT8011	8 Φ	16	1.0~10,000

BALUN TRANSFORMER

1. PICTURES



2. FEATURES

- Winding use pair wires for high uniformity.
- Surface mounting type also available.

3. APPLICATIONS

Ideal for use in double balanced mixers, broad band transistors, transistors for impedance conversion.

4. SPECIFICATIONS

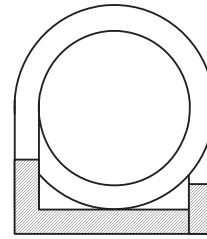
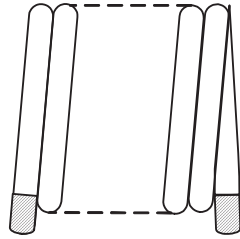
Applications	Using Frequency	Impedance ratio(Ω)	Insertion loss (dB)MAX		Isolation Loss (dB) max
Impedance conversion double balance mixers	50MHz~400MHz	50/200	10		-
	8MHz~1.1GHz	50/200	6		-
	5MHz~600MHz	50/200	2		-
	400MHz~1.3GHz	50/200	4		-
Distributors Synthesizers	30MHz~500MHz	75	4.5		10
	10MHz~600MHz	75	4.5		10
	700MHz~1.2GHz	50	4		15
Junction directional couplers	5MHz~2.15GHz	75	out1	4.0	-
			out2	9	
		75	out1	3.8	-
			out2	11	
		75	out1	2.8	-
			out2	14	
		75	out1	3.0	-
			out2	17	
		75	out1	2.0	-
			out2	21.5	
Distributor	5MHz~1.0GHz	75	out1	3.9	20

SMD SPRING COIL

E2 TYPE

DIMENSIONS & SPECIFICATION

UNIT : mm



Ordering code	Wire(Φ)	I.D(Φ)	Turns	Inductance (nH)
E2-0.15-0.4-3T	0.15	0.4	3T	3.6
E2-0.18-0.7-4T	0.18	0.7	4T	9.5
E2-0.18-0.7-5T	0.18	0.7	5T	12.8
E2-0.20-0.8-4T	0.20	0.8	4T	11.0
E2-0.20-0.8-5T	0.20	0.8	5T	15
E2-0.25-1.0-5T	0.25	1.0	5T	18.3
E2-0.25-1.8-8T	0.25	1.8	8T	77.4
E2-0.25-1.8-9T	0.25	1.8	9T	91.8
E2-0.26-1.2-3T	0.26	1.2	3T	11.0
E2-0.26-1.2-4T	0.26	1.2	4T	17.4
E2-0.26-1.2-5T	0.26	1.2	5T	22.6
E2-0.28-1.0-4T	0.28	1.0	4T	12.0
E2-0.28-1.0-5T	0.28	1.0	5T	16.0
E2-0.28-1.0-6T	0.28	1.0	6T	21.0
E2-0.28-1.1-6T	0.28	1.1	6T	24
E2-0.30-1.0-3T	0.30	1.0	3T	9.0
E2-0.30-1.0-4T	0.30	1.0	4T	12.0
E2-0.30-1.0-5T	0.30	1.0	5T	15.0
E2-0.32-1.0-3T	0.32	1.0	3T	8.0
E2-0.35-1.4-5T	0.35	1.4	5T	23.0
E2-0.35-1.6-4T	0.35	1.6	4T	21.0
E2-0.35-1.6-5T	0.35	1.6	5T	28.0
E2-0.40-1.5-4T	0.40	1.5	4T	19.6
E2-0.40-1.5-5T	0.40	1.5	5T	24.0
E2-0.40-1.5-6T	0.40	1.5	6T	31.0
E2-0.40-3.0-8T	0.40	3.0	8T	128.5
E2-0.40-3.0-9T	0.40	3.0	9T	150.0
E2-0.4-3.0-10T	0.40	3.0	10T	174.0
E2-0.45-1.4-3T	0.45	1.4	3T	11.0
E2-0.45-1.4-4T	0.45	1.4	4T	15.0
E2-0.45-1.5-5T	0.45	1.5	5T	23.2
E2-0.50-2.0-5T	0.50	2.0	5T	34.4
E2-0.50-2.0-6T	0.50	2.0	6T	42.7
E2-0.60-2.6-5T	0.60	2.6	5T	44.8
E2-0.80-3.0-6T	0.80	3.0	6T	61.5

Standard Parts selection Guide

*TEST Equipments : Agilent 4284A (1MHz 500mV)
LS-Q 1MHz / 500mV
HP16034E TEST FIXTURE

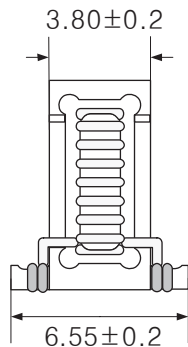
Note: can purchase customizing type, please contact us.

SMD TROIDAL

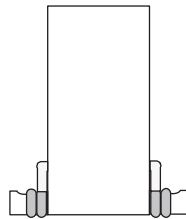
SMD BASE TYPE

1. DIMENSION

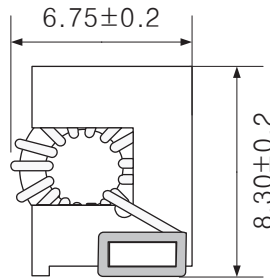
UNIT : mm



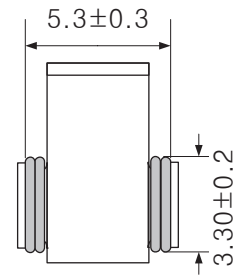
Front View



Rear View

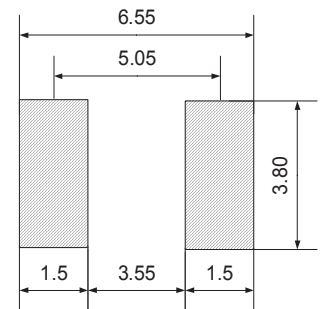


Side View



Bottom View

Recommended PCB Pattern



2. FEATURES

- Excellent ANTI-VIBRATION DEVICE. Insulation for substrate
- Low leakage flux due to gap-less structure
- Excellent frequency and temperature features
- More excellent DC bias and temperature characteristics in comparison with dust choke

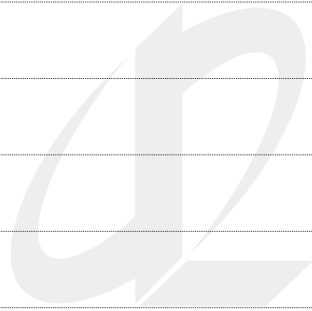
3. APPLICATIONS

- Car Audio, Car AMP. Audio, Power SMPS

4. SPECIFICATIONS

Image	Series	Part number	L x W	Height	Inductance range
	SMD TROIDAL	TDS-3949	6.55*6.75	8.3	5~8uH

Memo



고객과 직원을 최우선으로 생각하는 기업!

LS Communication



qna

This is to certify that the Quality Management System of

LS COMMUNICATION VINA CO., LTD.
Ba Thien Industrial Zone, Ba Hien Commune, Binh Xuyen District, Vinh Phuc Province Vietnam

applicable to

Manufacturing of coils, power inductors, wifi modules and bluetooth modules

has been assessed and registered by
NQA, Warwick House, Houghton Hall Park, Houghton Regis, Dunstable LU5 5ZX, Bedfordshire, England

against the provisions of

IATF 16949 : 2016

(Clause 8.3 product design of IATF 16949 : 2016 is justifiably excluded)

This registration is subject to the company maintaining a quality management system, to the above standard, which will be monitored by NQA

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30 October 2021
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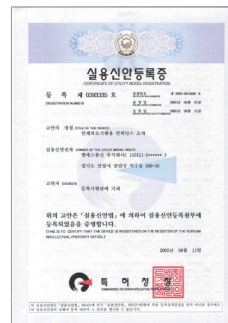
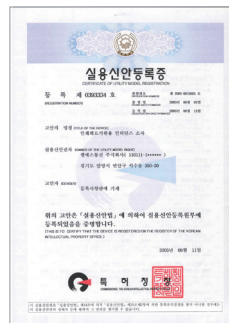
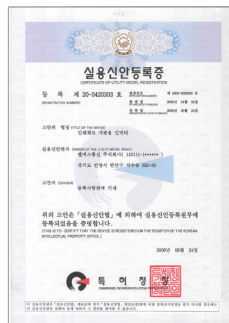
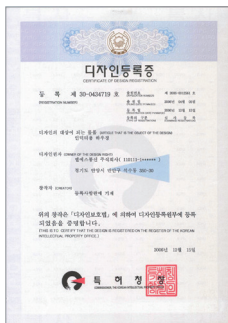
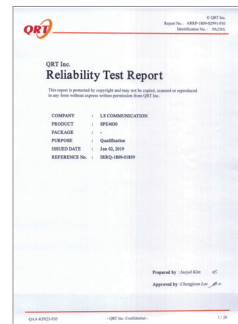
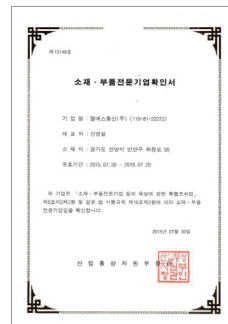
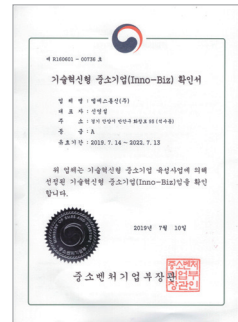
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Revision Date: Feb 2017

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Issue 5



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