



Chilisin Electronics Singapore Pte Ltd

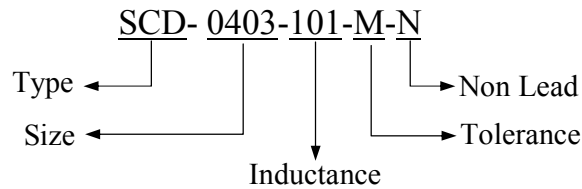
SMD Power Inductors, SCD Series



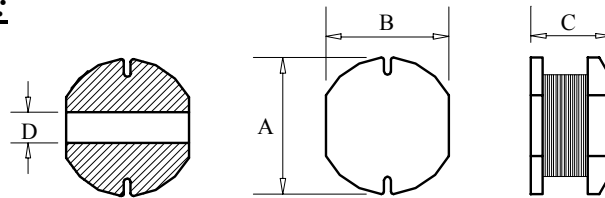
Feature:

- * Compact in Size, High mounting Density
- * Large Permissible DC Current and Low DC Resistance
- * Automatic Pick and Place machine is applicable
- * Reflow soldering is applicable

Ordering Code:



Dimension in mm:



Type	A	B	C	D typ.
SCD - 03015 - □□□	3.3 ± 0.3	3.0 ± 0.3	1.5 ± 0.3	1.0 Typ
SCD - 03021 - □□□	3.3 ± 0.3	3.0 ± 0.3	2.1 ± 0.3	1.0 Typ
SCD - 0403 - □□□	4.5 ± 0.3	4.0 ± 0.3	3.2 ± 0.3	1.2
SCD - 0504 - □□□	5.8 ± 0.3	5.2 ± 0.3	4.5 ± 0.4	1.3
SCD - 0703 - □□□	7.8 ± 0.3	7.0 ± 0.3	3.5 ± 0.5	2.1
SCD - 0705 - □□□	7.8 ± 0.3	7.0 ± 0.3	5.0 ± 0.5	2.1
SCD - 1004 - □□□	10.0 ± 0.3	9.0 ± 0.3	4.0 ± 0.5	2.1
SCD - 1005 - □□□	10.0 ± 0.4	9.0 ± 0.3	5.4 ± 0.4	2.1
SCD - 1006 - □□□	11.0 Max	10.0 Max	7.5 Max	2.1

Electrical:

Type	Inductance	DCR (ohm)	Rated Current (A)
SCD - 03015 - □□□	1.0μH ~ 1500μH	0.048Ω ~ 71.5.0Ω	1.60A ~ 0.030A
SCD - 03021 - □□□	0.5μH ~ 1000μH	0.038Ω ~ 28.8Ω	3.3A ~ 0.060A
SCD - 0403 - □□□	1.0μH ~ 100μH	0.033Ω ~ 2.00Ω	3.8A ~ 0.40A
SCD - 0504 - □□□	10μH ~ 220μH	0.10Ω ~ 1.57Ω	1.44A ~ 0.35A
SCD - 0703 - □□□	10μH ~ 330μH	0.08Ω ~ 1.50Ω	1.44A ~ 0.28A
SCD - 0705 - □□□	10μH ~ 470μH	0.07Ω ~ 1.96Ω	2.30A ~ 0.34A
SCD - 1004 - □□□	10μH ~ 47μH	0.05Ω ~ 1.90Ω	2.38A ~ 0.32A
SCD - 1005 - □□□	10μH ~ 820μH	0.06Ω ~ 2.55Ω	2.60A ~ 0.24A
SCD - 1006 - □□□	10μH ~ 1200μH	0.06Ω ~ 3.50Ω	3.50A ~ 0.35A



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SMD Power Inductors, SCD Series



Electrical:

Part no.	Inductance(μ H)	Test Freq.	DCR (Ω)	Rated (A) Max
SCD-03015-1R0M	1.0	7.96MHz	0.042	1.30
SCD-03015-2R2M	2.2	7.96MHz	0.130	0.79
SCD-03015-2R7M	2.7	7.96MHz	0.146	0.75
SCD-03015-3R3M	3.3	7.96MHz	0.162	0.72
SCD-03015-3R9M	3.9	7.96MHz	0.178	0.68
SCD-03015-4R7M	4.7	7.96MHz	0.195	0.65
SCD-03015-5R6M	5.6	7.96MHz	0.243	0.60
SCD-03015-6R8M	6.8	7.96MHz	0.293	0.55
SCD-03015-8R2M	8.2	7.96MHz	0.342	0.50
SCD-03015-100M	10	2.52MHz	0.390	0.45
SCD-03015-120M	12	2.52MHz	0.51	0.40
SCD-03015-150M	15	2.52MHz	0.75	0.30
SCD-03015-180M	18	2.52MHz	0.84	0.27
SCD-03015-220M	22	2.52MHz	0.92	0.25
SCD-03015-270M	27	2.52MHz	1.18	0.23
SCD-03015-330K	33	2.52MHz	1.43	0.20
SCD-03015-390K	39	2.52MHz	1.78	0.18
SCD-03015-470K	47	2.52MHz	2.14	0.16
SCD-03015-560K	56	2.52MHz	2.50	0.14
SCD-03015-680K	68	2.52MHz	2.86	0.13
SCD-03015-101K	100	1.0kHz	4.55	0.10
SCD-03015-122K	1200	1.0kHz	49.4	0.05
SCD-03015-152K	1500	1.0kHz	71.5	0.03

K = \pm 10% Tolerance

L = \pm 15% Tolerance

M = \pm 20% Tolerance

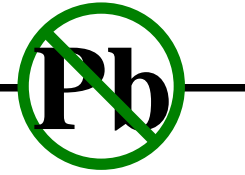
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SMD Power Inductors, SCD Series



Electrical:

Part no.	Inductance(μ H)	Test Freq.	DCR (Ω)	Rated (A) Max
SCD-03021-R50M	0.5	7.96MHz	0.038	3.30
SCD-03021-1R0M	1.0	7.96MHz	0.07	2.08
SCD-03021-1R4M	1.4	7.96MHz	0.09	1.86
SCD-03021-1R8M	1.8	7.96MHz	0.11	1.80
SCD-03021-2R2M	2.2	7.96MHz	0.13	1.39
SCD-03021-2R7M	2.7	7.96MHz	0.14	1.32
SCD-03021-3R3M	3.3	7.96MHz	0.17	1.25
SCD-03021-3R9M	3.9	7.96MHz	0.19	1.20
SCD-03021-4R7M	4.7	7.96MHz	0.21	1.13
SCD-03021-5R6M	5.6	7.96MHz	0.22	0.910
SCD-03021-6R8M	6.8	7.96MHz	0.25	0.850
SCD-03021-8R2M	8.2	7.96MHz	0.28	0.820
SCD-03021-100M	10	2.52MHz	0.32	0.740
SCD-03021-120M	12	2.52MHz	0.35	0.640
SCD-03021-150M	15	2.52MHz	0.40	0.600
SCD-03021-180M	18	2.52MHz	0.48	0.540
SCD-03021-220M	22	2.52MHz	0.58	0.500
SCD-03021-270M	27	2.52MHz	0.65	0.430
SCD-03021-330K	33	2.52MHz	0.80	0.400
SCD-03021-390K	39	2.52MHz	0.90	0.370
SCD-03021-470K	47	2.52MHz	1.19	0.360
SCD-03021-560K	56	2.52MHz	1.27	0.310
SCD-03021-680K	68	2.52MHz	1.73	0.300
SCD-03021-820K	82	2.52MHz	1.99	0.280
SCD-03021-101K	100	1.0kHz	2.52	0.250
SCD-03021-121K	120	1.0kHz	2.90	0.200
SCD-03021-151K	150	1.0kHz	3.36	0.190
SCD-03021-181K	180	1.0kHz	5.10	0.170
SCD-03021-221K	220	1.0kHz	5.80	0.160
SCD-03021-271K	270	1.0kHz	7.80	0.140
SCD-03021-331K	330	1.0kHz	9.24	0.130
SCD-03021-391K	390	1.0kHz	10.14	0.120
SCD-03021-471K	470	1.0kHz	11.48	0.084
SCD-03021-561K	560	1.0kHz	19.49	0.080
SCD-03021-681K	680	1.0kHz	22.00	0.075
SCD-03021-821K	820	1.0kHz	23.98	0.070
SCD-03021-102K	100	1.0kHz	28.8	0.060

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Electrical:

Part no.	Inductance(μ H)	Test Freq.	DCR (Ω)	Rated (A) Max
SCD-0403-1R0M	1.0	7.96MHz	0.033	3.80
SCD-0403-1R4M	1.4	7.96MHz	0.038	3.30
SCD-0403-1R8M	1.8	7.96MHz	0.042	2.91
SCD-0403-2R2M	2.2	7.96MHz	0.047	2.60
SCD-0403-2R7M	2.7	7.96MHz	0.052	2.430
SCD-0403-3R3M	3.3	7.96MHz	0.058	2.150
SCD-0403-3R9M	3.9	7.96MHz	0.076	1.980
SCD-0403-4R7M	4.7	7.96MHz	0.094	1.700
SCD-0403-5R6M	5.6	7.96MHz	0.101	1.600
SCD-0403-6R8M	6.8	7.96MHz	0.117	1.410
SCD-0403-8R2M	8.2	7.96MHz	0.132	1.260
SCD-0403-100M	10	2.52MHz	0.182	1.150
SCD-0403-120M	12	2.52MHz	0.210	1.050
SCD-0403-150M	15	2.52MHz	0.235	0.920
SCD-0403-180M	18	2.52MHz	0.338	0.840
SCD-0403-220M	22	2.52MHz	0.378	0.760
SCD-0403-270M	27	2.52MHz	0.522	0.710
SCD-0403-330K	33	2.52MHz	0.540	0.640
SCD-0403-390K	39	2.52MHz	0.587	0.590
SCD-0403-470K	47	2.52MHz	0.844	0.540
SCD-0403-560K	56	2.52MHz	0.937	0.500
SCD-0403-680K	68	2.52MHz	1.117	0.460
SCD-0403-101K	100	1.0kHz	2.000	0.400

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Electrical:

Part no.	Inductance(μ H)	Test Freq.	DCR (Ω)	Rated (A) Max
SCD-0504-100M	10	2.52MHz	0.10	1.44
SCD-0504-120M	12	2.52MHz	0.12	1.40
SCD-0504-150M	15	2.52MHz	0.14	1.30
SCD-0504-180M	18	2.52MHz	0.15	1.23
SCD-0504-220M	22	2.52MHz	0.18	1.11
SCD-0504-270M	27	2.52MHz	0.20	0.97
SCD-0504-330L	33	2.52MHz	0.23	0.88
SCD-0504-390L	39	2.52MHz	0.32	0.80
SCD-0504-470L	47	2.52MHz	0.37	0.72
SCD-0504-560K	56	2.52MHz	0.42	0.68
SCD-0504-680K	68	2.52MHz	0.46	0.61
SCD-0504-820K	82	2.52MHz	0.60	0.58
SCD-0504-101K	100	1KHz	0.70	0.52
SCD-0504-121K	120	1KHz	0.93	0.48
SCD-0504-151K	150	1KHz	1.10	0.40
SCD-0504-181K	180	1KHz	1.38	0.38
SCD-0504-221K	220	1KHz	1.57	0.35

Tolerance: M = $\pm 20\%$, K = $\pm 10\%$, J = $\pm 5\%$

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Electrical:

Part no.	Inductance(μ H)	Test Freq.	DCR (Ω)	Rated (A) Max
SCD-0703-100M	10	2.52MHz	0.08	1.44
SCD-0703-120M	12	2.52MHz	0.09	1.39
SCD-0703-150M	15	2.52MHz	0.10	1.24
SCD-0703-180M	18	2.52MHz	0.11	1.12
SCD-0703-220M	22	2.52MHz	0.13	1.07
SCD-0703-270M	27	2.52MHz	0.15	0.94
SCD-0703-330M	33	2.52MHz	0.17	0.85
SCD-0703-390M	39	2.52MHz	0.22	0.74
SCD-0703-470M	47	2.52MHz	0.25	0.68
SCD-0703-560K	56	2.52MHz	0.28	0.64
SCD-0703-680K	68	2.52MHz	0.33	0.59
SCD-0703-820K	82	2.52MHz	0.41	0.54
SCD-0703-101K	100	1KHz	0.48	0.51
SCD-0703-121K	120	1KHz	0.54	0.49
SCD-0703-151K	150	1KHz	0.75	0.40
SCD-0703-181K	180	1KHz	1.02	0.36
SCD-0703-221K	220	1KHz	1.20	0.31
SCD-0703-271K	270	1KHz	1.31	0.29
SCD-0703-331K	330	1KHz	1.50	0.28

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Electrical:

Part no.	Inductance(μ H)	Test Freq.	DCR (Ω)	Rated (A) Max
SCD-0705-100K	10	2.52MHz	0.07	2.30
SCD-0705-120K	12	2.52MHz	0.08	2.00
SCD-0705-150K	15	2.52MHz	0.09	1.80
SCD-0705-180K	18	2.52MHz	0.10	1.60
SCD-0705-220K	22	2.52MHz	0.11	1.50
SCD-0705-270K	27	2.52MHz	0.12	1.30
SCD-0705-330K	33	2.52MHz	0.13	1.20
SCD-0705-390K	39	2.52MHz	0.16	1.10
SCD-0705-470K	47	2.52MHz	0.18	1.10
SCD-0705-560K	56	2.52MHz	0.24	0.94
SCD-0705-680K	68	2.52MHz	0.28	0.85
SCD-0705-820K	82	2.52MHz	0.37	0.78
SCD-0705-101K	100	1KHz	0.43	0.72
SCD-0705-121K	120	1KHz	0.47	0.66
SCD-0705-151K	150	1KHz	0.64	0.58
SCD-0705-181K	180	1KHz	0.71	0.51
SCD-0705-221K	220	1KHz	0.96	0.49
SCD-0705-271K	270	1KHz	1.11	0.42
SCD-0705-331K	330	1KHz	1.26	0.40
SCD-0705-391K	390	1KHz	1.77	0.36
SCD-0705-471K	470	1KHz	1.96	0.34

Tolerance: M = $\pm 20\%$, K = $\pm 10\%$, J = $\pm 5\%$

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SMD Power Inductors, SCD Series



Electrical:

Part no.	Inductance(μ H)	Test Freq.	DCR (Ω)	Rated (A) Max
SCD-1004-100M	10	2.52MHz	0.05	2.38
SCD-1004-120M	12	2.52MHz	0.06	2.13
SCD-1004-150M	15	2.52MHz	0.07	1.87
SCD-1004-180M	18	2.52MHz	0.08	1.73
SCD-1004-220M	22	2.52MHz	0.09	1.60
SCD-1004-270M	27	2.52MHz	0.10	1.44
SCD-1004-330M	33	2.52MHz	0.12	1.26
SCD-1004-390M	39	2.52MHz	0.15	1.20
SCD-1004-470M	47	2.52MHz	0.17	1.10
SCD-1004-560K	56	2.52MHz	0.20	1.01
SCD-1004-680K	68	2.52MHz	0.22	0.91
SCD-1004-820K	82	2.52MHz	0.25	0.85
SCD-1004-101K	100	1KHz	0.34	0.74
SCD-1004-121K	120	1KHz	0.40	0.69
SCD-1004-151K	150	1KHz	0.54	0.61
SCD-1004-181K	180	1KHz	0.62	0.56
SCD-1004-221K	220	1KHz	0.72	0.53
SCD-1004-271K	270	1KHz	0.95	0.45
SCD-1004-331K	330	1KHz	1.10	0.42
SCD-1004-391K	390	1KHz	1.24	0.38
SCD-1004-471K	470	1KHz	1.53	0.35
SCD-1004-561K	560	1KHz	1.90	0.32

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Electrical:

Part no.	Inductance(μ H)	Test Freq.	DCR (Ω)	Rated (A) Max
SCD-1005-100M	10	2.52MHz	0.06	2.60
SCD-1005-120M	12	2.52MHz	0.07	2.45
SCD-1005-150M	15	2.52MHz	0.08	2.27
SCD-1005-180M	18	2.52MHz	0.09	2.15
SCD-1005-220M	22	2.52MHz	0.10	1.95
SCD-1005-270M	27	2.52MHz	0.11	1.76
SCD-1005-330M	33	2.52MHz	0.12	1.50
SCD-1005-390M	39	2.52MHz	0.14	1.37
SCD-1005-470K	47	2.52MHz	0.17	1.28
SCD-1005-560K	56	2.52MHz	0.19	1.17
SCD-1005-680K	68	2.52MHz	0.22	1.11
SCD-1005-820K	82	2.52MHz	0.25	1.00
SCD-1005-101K	100	1KHz	0.35	0.97
SCD-1005-121K	120	1KHz	0.40	0.89
SCD-1005-151K	150	1KHz	0.47	0.78
SCD-1005-181K	180	1KHz	0.63	0.72
SCD-1005-221K	220	1KHz	0.73	0.66
SCD-1005-271K	270	1KHz	0.97	0.57
SCD-1005-331K	330	1KHz	1.15	0.52
SCD-1005-391K	390	1KHz	1.30	0.48
SCD-1005-471K	470	1KHz	1.48	0.42
SCD-1005-561K	560	1KHz	1.90	0.33
SCD-1005-681K	680	1KHz	2.25	0.28
SCD-1005-821K	820	1KHz	2.55	0.24

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Electrical:

Part no.	Inductance(μ H)	Test Freq.	DCR (Ω)	Rated (A) Max
SCD-1006-100M	10	1KHz	0.06	3.50
SCD-1006-120M	12	1KHz	0.07	3.40
SCD-1006-150M	15	1KHz	0.08	3.10
SCD-1006-180M	18	1KHz	0.09	3.00
SCD-1006-220M	22	1KHz	0.10	2.60
SCD-1006-270M	27	1KHz	0.11	2.40
SCD-1006-330M	33	1KHz	0.12	2.30
SCD-1006-390M	39	1KHz	0.14	2.10
SCD-1006-470M	47	1KHz	0.17	1.95
SCD-1006-560M	56	1KHz	0.19	1.85
SCD-1006-680M	68	1KHz	0.22	1.65
SCD-1006-820M	82	1KHz	0.25	1.50
SCD-1006-101K	100	1KHz	0.36	1.40
SCD-1006-121K	120	1KHz	0.40	1.30
SCD-1006-151K	150	1KHz	0.47	1.20
SCD-1006-181K	180	1KHz	0.63	1.00
SCD-1006-221K	220	1KHz	0.73	0.95
SCD-1006-271K	270	1KHz	0.97	0.90
SCD-1006-331K	330	1KHz	1.15	0.80
SCD-1006-391K	390	1KHz	1.30	0.75
SCD-1006-471K	470	1KHz	1.48	0.65
SCD-1006-561K	560	1KHz	1.90	0.60
SCD-1006-681K	680	1KHz	2.45	0.50
SCD-1006-821K	820	1KHz	2.55	0.48
SCD-1006-102K	1000	1KHz	3.00	0.46
SCD-1006-122K	1200	1KHz	3.50	0.35

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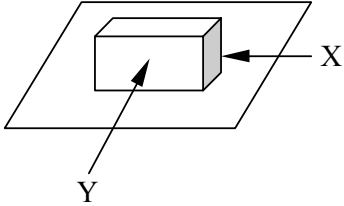


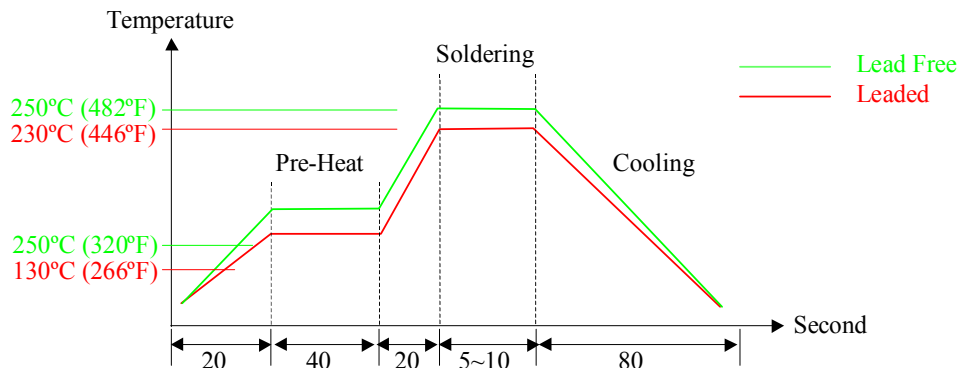
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Component Specification for SCD Power Inductors

Operating Temperature	-30°C to +85°C
Appearance Inspection	No external defects by visual inspection
Terminal Strength	<p>After soldering between copper plate and terminals of coil, Push in two directions of X and Y. (refer to figure below) Withstanding the below conditions.</p> <p>10.0N 10 sec. SCD0403 SCD0504 15.0N 10 sec. SCD0703 SCD0705 20.0N 10 sec. SCD1004 SCD1005 SCD1006</p> <p>Terminal should not peel off.</p> 
Heat endurance IR re-flow	Refer to below Graph
Insulating resistance	Over 100MΩ at 100v DC for 1 minute between wire and core
Temperature characteristics	Inductance Coefficient (0 ~ 2,000) X 10 ⁻⁶ / °C (-25°C ~ +80°C)
Humidity Characteristics	Inductance deviation within ±5% after 96 hours in 90% ~ 95% Relative humidity at 40% ± 2°C and 1 hour drying under normal condition
Vibration Resistance	Inductance deviation within ±50%, after vibration for 1 hour in each of the three orientations at sweep vibration (10Hz ~ 55Hz ~ 10Hz) With 1.5mm p-p amplitude



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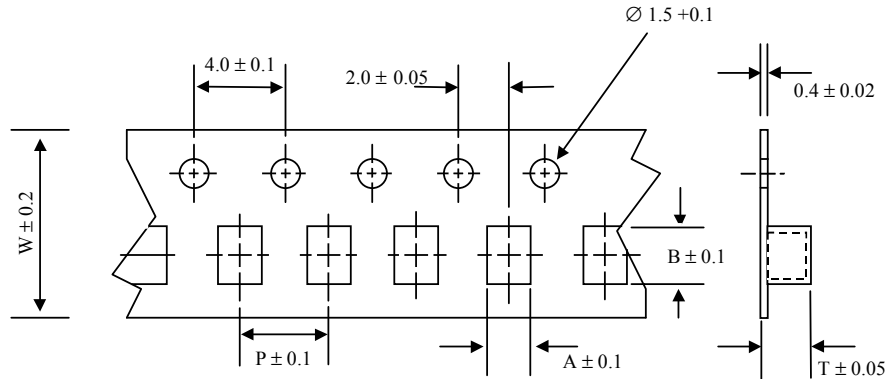


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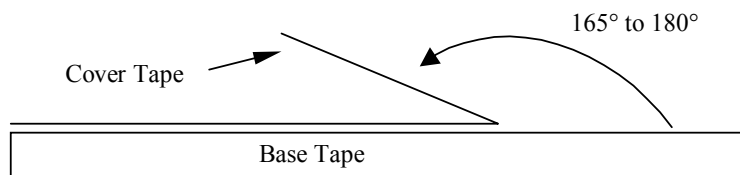
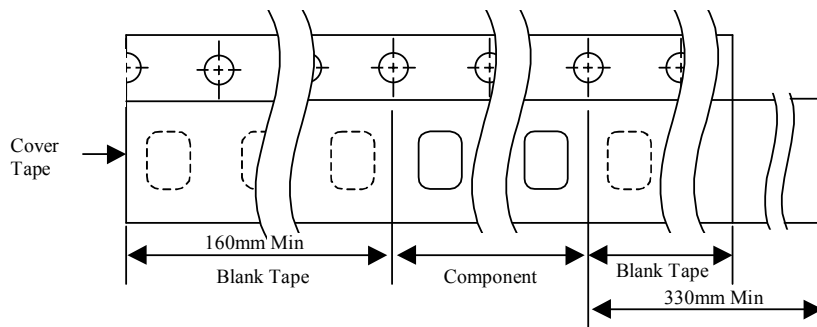
SMD Power Inductors, SCD Series



Tape Dimensions in mm:



Type	A	B	W	P	T	Qty/Reel
SCD - 03015	3.6	3.4	12	8	1.80	3000
SCD - 03021	3.6	3.4	12	8	2.50	3000
SCD 0403	4.3	4.8	12	8	3.70	1500
SCD 0504	5.6	6.2	12	12	5.00	1000
SCD 0703	7.5	8.3	16	12	4.00	1000
SCD 0705	7.5	8.3	16	12	5.70	500
SCD 1004	9.6	10.5	24	12	4.70	1000
SCD 1005	9.6	10.5	24	16	6.00	500
SCD 1006	9.6	10.5	24	16	7.20	500



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