

## Data Sheet

**Customer:**

**Product:** Shielded SMD Power Inductor – PCF Series

**Sizes.:** 4010/4020/4030/5010/5020/5030/6020/6030/6915/6919/  
7040

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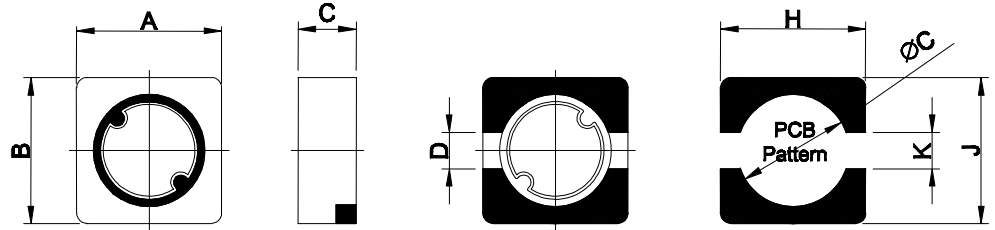
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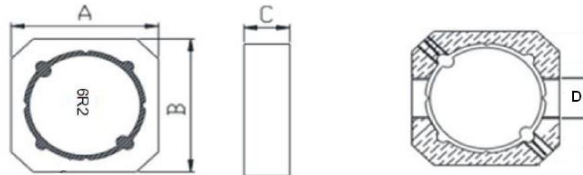
## Shielded SMD Power Inductor



PCF 4010/4020/4030/5010/5020/5030/6915/6919/7040



PCF6020/6030



### Features

- Directly connected electrode on ferrite core
- Available in magnetically shielded
- Low DC resistance
- Suitable for large current
- Available on tape and reel for auto surface mounting

### Applications

- Power Supply For VTRs
- OA Equipment.
- Notebook PCs
- Portable Communication Equipment
- DC/DC Converters, etc.

### Characteristics

- Rated Current:  
4010/4020/5010/5020/5030/6915/6919/7040: The DC current when the inductance becomes 30% lower than its initial value.
- 4030/6020/6030: The DC current when the inductance becomes 35% lower than its initial value. (Ta=25°C)
- Operating temperature range: -40~+125°C

### Dimensions

Unit: mm

Type	A	B	C max.	D	H	J	K	ΦC
PCF4010	3.8±0.3	3.8±0.3	1.25	1.2	4.4	4.4	1.1	3.0
PCF4020	3.8±0.3	3.8±0.3	2.00	1.2	4.4	4.4	1.1	3.0
PCF4030	3.8±0.3	3.8±0.3	3.00	1.2	4.4	4.4	1.1	3.0
PCF5010	5.0±0.3	5.0±0.3	1.20	2.0	5.9	5.9	1.9	4.2
PCF5020	5.0±0.3	5.0±0.3	2.00	2.0	5.9	5.9	1.9	4.2
PCF5030	5.0±0.3	5.0±0.3	3.00	2.0	5.9	5.9	1.9	4.2
PCF6020	6.0±0.2	6.0±0.2	2.00	2.0	6.6	6.6	2.0	4.6
PCF6030	6.0±0.2	6.0±0.2	3.00	2.0	6.6	6.6	2.0	4.6
PCF6915	6.9±0.3	6.9±0.3	1.50	2.5	7.3	7.3	2.0	5.3
PCF6919	6.9±0.3	6.9±0.3	1.90	2.5	7.3	7.3	2.0	5.3
PCF7040	7.0±0.4	7.0±0.4	4.30	1.8	8.0	8.0	1.6	6.0

### Inductance and rated current ranges

– PCF4010	1.0~180μH	1.60~0.110A
– PCF4020	0.47~1800μH	1.84~0.036A
– PCF4030	1.5~560μH	1.90~0.090A
– PCF5010	1.2~820μH	1.77~0.077A
– PCF5020	1.0~820μH	2.70~0.120A
– PCF5030	1.0~560μH	4.00~0.014A
– PCF6020	1.3~150μH	3.20~0.350A
– PCF6030	2.2~150μH	3.00~0.350A
– PCF6915	1.0~820μH	3.28~0.100A
– PCF6919	0.36~1500μH	8.00~0.095A
– PCF7040	0.36~1000μH	9.24~0.180A

- Test equipment:  
L: HP4284A LCR meter  
DCR: Milli-ohm meter
- Electrical specifications at 25°C

### Product Identification

PCF	4010	M	T	101
Product Type	Dimensions (AxBxC)	Inductor Tolerance	Packaging Style	Inductance
	4010: 3.8x3.8x1.25 4020: 3.8x3.8x2.0 4030: 3.8x3.8x3.0 5010: 5.0x5.0x1.2 5020: 5.0x5.0x2.0 5030: 5.0x5.0x3.0 6020: 6.0x6.0x2.0 6030: 6.0x6.0x3.0 6915: 6.9x6.9x1.5 6919: 6.9x6.9x1.9 7040: 7.0x7.0x4.3	M: ±20% N: ±30%	T: Tape and Reel	1R0: 1.0μH 470: 47μH 101: 100μH

**Electrical Characteristics**

PCF4010\_Type(□:Tolerance):

Part No	L ( $\mu$ H)	Tolerance	Test Condition	DCR ( $\Omega$ ) max.	IDC (A) max.
PCF4010□T1R0	1.0	M, N	100KHz, 0.25V	0.060	1.600
PCF4010□T1R2	1.2	M, N	100KHz, 0.25V	0.065	1.400
PCF4010□T1R5	1.5	M, N	100KHz, 0.25V	0.077	1.240
PCF4010□T1R8	1.8	M, N	100KHz, 0.25V	0.093	1.220
PCF4010□T2R2	2.2	M, N	100KHz, 0.25V	0.125	1.200
PCF4010□T2R4	2.4	M, N	100KHz, 0.25V	0.139	0.980
PCF4010□T3R3	3.3	M, N	100KHz, 0.25V	0.187	0.890
PCF4010□T3R5	3.5	M, N	100KHz, 0.25V	0.210	0.850
PCF4010□T3R9	3.9	M, N	100KHz, 0.25V	0.220	0.780
PCF4010□T4R7	4.7	M, N	100KHz, 0.25V	0.240	0.710
PCF4010□T5R6	5.6	M, N	100KHz, 0.25V	0.320	0.620
PCF4010□T6R8	6.8	M, N	100KHz, 0.25V	0.350	0.570
PCF4010□T8R2	8.2	M, N	100KHz, 0.25V	0.470	0.520
PCF4010□T100	10	M	1KHz, 0.25V	0.570	0.470
PCF4010□T120	12	M	1KHz, 0.25V	0.750	0.430
PCF4010□T150	15	M	1KHz, 0.25V	0.810	0.380
PCF4010□T180	18	M	1KHz, 0.25V	1.060	0.350
PCF4010□T220	22	M	1KHz, 0.25V	1.150	0.320
PCF4010□T270	27	M	1KHz, 0.25V	1.670	0.290
PCF4010□T330	33	M	1KHz, 0.25V	1.840	0.280
PCF4010□T390	39	M	1KHz, 0.25V	2.310	0.250
PCF4010□T470	47	M	1KHz, 0.25V	2.630	0.220
PCF4010□T560	56	M	1KHz, 0.25V	2.860	0.200
PCF4010□T680	68	M	1KHz, 0.25V	3.940	0.180
PCF4010□T820	82	M	1KHz, 0.25V	4.900	0.160
PCF4010□T101	100	M	1KHz, 0.25V	5.740	0.140
PCF4010□T121	120	M	1KHz, 0.25V	7.310	0.130
PCF4010□T151	150	M	1KHz, 0.25V	9.300	0.120
PCF4010□T181	180	M	1KHz, 0.25V	9.500	0.110

**■Electrical Characteristics**

PCF4020 Type(□:Tolerance):

Part No	L ( $\mu$ H)	Tolerance	Test Condition	DCR ( $\Omega$ ) max.	IDC (A) max.
PCF4020□TR47	0.47	N	100KHz, 0.25V	0.017	1.840
PCF4020□T1R0	1.0	M, N	100KHz, 0.25V	0.030	1.800
PCF4020□T1R2	1.2	M, N	100KHz, 0.25V	0.043	1.700
PCF4020□T1R5	1.5	M, N	100KHz, 0.25V	0.052	1.600
PCF4020□T1R8	1.8	M, N	100KHz, 0.25V	0.056	1.550
PCF4020□T2R2	2.2	M, N	100KHz, 0.25V	0.058	1.500
PCF4020□T2R5	2.5	M, N	100KHz, 0.25V	0.059	1.400
PCF4020□T2R7	2.7	M, N	100KHz, 0.25V	0.059	1.400
PCF4020□T3R3	3.3	M, N	100KHz, 0.25V	0.064	1.300
PCF4020□T3R5	3.5	M, N	100KHz, 0.25V	0.127	1.300
PCF4020□T3R9	3.9	M, N	100KHz, 0.25V	0.135	1.120
PCF4020□T4R7	4.7	M, N	100KHz, 0.25V	0.146	1.100
PCF4020□T5R6	5.6	M, N	100KHz, 0.25V	0.176	0.950
PCF4020□T6R2	6.2	M, N	100KHz, 0.25V	0.220	0.910
PCF4020□T6R8	6.8	M, N	100KHz, 0.25V	0.238	0.900
PCF4020□T8R2	8.2	M, N	100KHz, 0.25V	0.272	0.800
PCF4020□T100	10	M	1KHz, 0.25V	0.299	0.700
PCF4020□T150	15	M	1KHz, 0.25V	0.472	0.610
PCF4020□T220	22	M	1KHz, 0.25V	0.592	0.520
PCF4020□T270	27	M	1KHz, 0.25V	0.630	0.440
PCF4020□T330	33	M	1KHz, 0.25V	1.075	0.430
PCF4020□T470	47	M	1KHz, 0.25V	1.309	0.340
PCF4020□T680	68	M	1KHz, 0.25V	2.613	0.250
PCF4020□T820	82	M	1KHz, 0.25V	2.950	0.200
PCF4020□T101	100	M	1KHz, 0.25V	3.255	0.190
PCF4020□T151	150	M	1KHz, 0.25V	3.550	0.120
PCF4020□T221	220	M	1KHz, 0.25V	4.900	0.090
PCF4020□T271	270	M	1KHz, 0.25V	6.000	0.090
PCF4020□T331	330	M	1KHz, 0.25V	7.280	0.080
PCF4020□T681	680	M	1KHz, 0.25V	13.370	0.070
PCF4020□T102	1000	M	1KHz, 0.25V	19.550	0.065
PCF4020□T152	1500	M	1KHz, 0.25V	36.150	0.038
PCF4020□T182	1800	M	1KHz, 0.25V	57.620	0.036

**Electrical Characteristics**

PCF4030 Type(□:Tolerance):

Part No	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
PCF4030□T1R5	1.5	M, N	100KHz, 0.25V	0.015	1.900
PCF4030□T1R8	1.8	M, N	100KHz, 0.25V	0.018	1.760
PCF4030□T2R2	2.2	M, N	100KHz, 0.25V	0.020	1.670
PCF4030□T2R4	2.4	M, N	100KHz, 0.25V	0.022	1.650
PCF4030□T2R7	2.7	M, N	100KHz, 0.25V	0.028	1.450
PCF4030□T3R3	3.3	M, N	100KHz, 0.25V	0.032	1.440
PCF4030□T3R6	3.6	M, N	100KHz, 0.25V	0.035	1.430
PCF4030□T3R9	3.9	M, N	100KHz, 0.25V	0.037	1.320
PCF4030□T4R3	4.3	M, N	100KHz, 0.25V	0.043	1.000
PCF4030□T4R7	4.7	M, N	100KHz, 0.25V	0.045	0.970
PCF4030□T5R1	5.1	M, N	100KHz, 0.25V	0.046	0.940
PCF4030□T6R8	6.8	M, N	100KHz, 0.25V	0.065	0.870
PCF4030□T7R5	7.5	M, N	100KHz, 0.25V	0.079	0.820
PCF4030□T8R2	8.2	M, N	100KHz, 0.25V	0.091	0.770
PCF4030□T100	10	M	1KHz, 0.25V	0.105	0.700
PCF4030□T120	12	M	1KHz, 0.25V	0.119	0.670
PCF4030□T150	15	M	1KHz, 0.25V	0.140	0.540
PCF4030□T180	18	M	1KHz, 0.25V	0.175	0.500
PCF4030□T220	22	M	1KHz, 0.25V	0.201	0.480
PCF4030□T270	27	M	1KHz, 0.25V	0.227	0.400
PCF4030□T330	33	M	1KHz, 0.25V	0.287	0.350
PCF4030□T390	39	M	1KHz, 0.25V	0.341	0.330
PCF4030□T470	47	M	1KHz, 0.25V	0.430	0.320
PCF4030□T560	56	M	1KHz, 0.25V	0.471	0.300
PCF4030□T680	68	M	1KHz, 0.25V	0.532	0.270
PCF4030□T820	82	M	1KHz, 0.25V	0.675	0.230
PCF4030□T101	100	M	1KHz, 0.25V	0.850	0.210
PCF4030□T121	120	M	1KHz, 0.25V	1.110	0.200
PCF4030□T151	150	M	1KHz, 0.25V	1.230	0.170
PCF4030□T181	180	M	1KHz, 0.25V	1.560	0.150
PCF4030□T221	220	M	1KHz, 0.25V	1.800	0.140
PCF4030□T271	270	M	1KHz, 0.25V	2.200	0.130
PCF4030□T331	330	M	1KHz, 0.25V	2.640	0.120
PCF4030□T391	390	M	1KHz, 0.25V	3.200	0.100
PCF4030□T471	470	M	1KHz, 0.25V	3.820	0.100
PCF4030□T561	560	M	1KHz, 0.25V	4.620	0.090

**Electrical Characteristics**

PCF5010\_Type(□:Tolerance):

Part No	L ( $\mu$ H)	Tolerance	Test Condition	DCR ( $\Omega$ ) max.	IDC (A) max.
PCF5010□T1R0	1.0	M, N	100KHz, 0.25V	0.044	1.800
PCF5010□T1R2	1.2	M, N	100KHz, 0.25V	0.050	1.770
PCF5010□T1R5	1.5	M, N	100KHz, 0.25V	0.069	1.710
PCF5010□T2R0	2.0	M, N	100KHz, 0.25V	0.100	1.440
PCF5010□T2R2	2.2	M, N	100KHz, 0.25V	0.110	1.400
PCF5010□T3R3	3.3	M, N	100KHz, 0.25V	0.140	1.140
PCF5010□T3R5	3.5	M, N	100KHz, 0.25V	0.150	1.100
PCF5010□T4R7	4.7	M, N	100KHz, 0.25V	0.190	0.950
PCF5010□T5R6	5.6	M, N	100KHz, 0.25V	0.193	0.900
PCF5010□T6R2	6.2	M, N	100KHz, 0.25V	0.200	0.840
PCF5010□T6R8	6.8	M, N	100KHz, 0.25V	0.200	0.800
PCF5010□T8R2	8.2	M, N	100KHz, 0.25V	0.300	0.750
PCF5010□T100	10	M	1KHz, 0.25V	0.350	0.660
PCF5010□T120	12	M	1KHz, 0.25V	0.430	0.620
PCF5010□T150	15	M	1KHz, 0.25V	0.440	0.590
PCF5010□T180	18	M	1KHz, 0.25V	0.750	0.570
PCF5010□T220	22	M	1KHz, 0.25V	0.820	0.560
PCF5010□T330	33	M	1KHz, 0.25V	1.160	0.430
PCF5010□T470	47	M	1KHz, 0.25V	1.590	0.340
PCF5010□T680	68	M	1KHz, 0.25V	2.140	0.290
PCF5010□T820	82	M	1KHz, 0.25V	2.720	0.250
PCF5010□T101	100	M	1KHz, 0.25V	3.550	0.220
PCF5010□T121	120	M	1KHz, 0.25V	4.890	0.200
PCF5010□T151	150	M	1KHz, 0.25V	5.200	0.190
PCF5010□T181	180	M	1KHz, 0.25V	7.550	0.170
PCF5010□T221	220	M	1KHz, 0.25V	7.760	0.150
PCF5010□T271	270	M	1KHz, 0.25V	10.13	0.145
PCF5010□T331	330	M	1KHz, 0.25V	11.23	0.140
PCF5010□T471	470	M	1KHz, 0.25V	16.86	0.098
PCF5010□T561	560	M	1KHz, 0.25V	22.78	0.097
PCF5010□T681	680	M	1KHz, 0.25V	24.87	0.085
PCF5010□T821	820	M	1KHz, 0.25V	28.09	0.077

**Electrical Characteristics**

PCF 5020 Type(□:Tolerance):

Part No	L ( $\mu$ H)	Tolerance	Test Condition	DCR ( $\Omega$ ) max.	IDC (A) max.
PCF5020□T1R0	1.0	M, N	100KHz, 0.25V	0.030	2.700
PCF5020□T1R2	1.2	M, N	100KHz, 0.25V	0.044	2.150
PCF5020□T2R0	2.0	M, N	100KHz, 0.25V	0.046	1.900
PCF5020□T2R2	2.2	M, N	100KHz, 0.25V	0.059	1.630
PCF5020□T2R7	2.7	M, N	100KHz, 0.25V	0.060	1.550
PCF5020□T3R3	3.3	M, N	100KHz, 0.25V	0.062	1.500
PCF5020□T3R5	3.5	M, N	100KHz, 0.25V	0.073	1.340
PCF5020□T4R1	4.1	M, N	100KHz, 0.25V	0.081	1.200
PCF5020□T4R7	4.7	M, N	100KHz, 0.25V	0.087	1.140
PCF5020□T5R6	5.6	M, N	100KHz, 0.25V	0.093	1.000
PCF5020□T6R8	6.8	M, N	100KHz, 0.25V	0.105	0.950
PCF5020□T8R2	8.2	M, N	100KHz, 0.25V	0.139	0.900
PCF5020□T100	10	M	1KHz, 0.25V	0.150	0.760
PCF5020□T120	12	M	1KHz, 0.25V	0.170	0.660
PCF5020□T150	15	M	1KHz, 0.25V	0.210	0.630
PCF5020□T220	22	M	1KHz, 0.25V	0.275	0.560
PCF5020□T330	33	M	1KHz, 0.25V	0.455	0.440
PCF5020□T390	39	M	1KHz, 0.25V	0.540	0.380
PCF5020□T470	47	M	1KHz, 0.25V	0.730	0.350
PCF5020□T560	56	M	1KHz, 0.25V	0.800	0.320
PCF5020□T680	68	M	1KHz, 0.25V	0.935	0.300
PCF5020□T101	100	M	1KHz, 0.25V	1.500	0.230
PCF5020□T121	120	M	1KHz, 0.25V	1.910	0.220
PCF5020□T151	150	M	1KHz, 0.25V	2.680	0.210
PCF5020□T181	180	M	1KHz, 0.25V	3.045	0.200
PCF5020□T221	220	M	1KHz, 0.25V	3.520	0.195
PCF5020□T271	270	M	1KHz, 0.25V	4.380	0.193
PCF5020□T331	330	M	1KHz, 0.25V	5.560	0.190
PCF5020□T471	470	M	1KHz, 0.25V	7.820	0.180
PCF5020□T561	560	M	1KHz, 0.25V	9.790	0.170
PCF5020□T821	820	M	1KHz, 0.25V	15.00	0.120

**Electrical Characteristics**

PCF5030 Type(□:Tolerance):

Part No	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
PCF5030□T1R0	1.0	M, N	100KHz, 0.25V	0.015	4.000
PCF5030□T1R1	1.1	M, N	100KHz, 0.25V	0.020	3.870
PCF5030□T1R2	1.2	M, N	100KHz, 0.25V	0.022	3.800
PCF5030□T2R0	2.0	M, N	100KHz, 0.25V	0.027	2.920
PCF5030□T2R2	2.2	M, N	100KHz, 0.25V	0.029	2.410
PCF5030□T3R3	3.3	M, N	100KHz, 0.25V	0.034	2.360
PCF5030□T4R7	4.7	M, N	100KHz, 0.25V	0.045	1.870
PCF5030□T5R6	5.6	M, N	100KHz, 0.25V	0.052	1.600
PCF5030□T6R8	6.8	M, N	100KHz, 0.25V	0.068	1.510
PCF5030□T8R2	8.2	M, N	100KHz, 0.25V	0.084	1.380
PCF5030□T100	10	M	1KHz, 0.25V	0.090	1.330
PCF5030□T120	12	M	1KHz, 0.25V	0.125	1.080
PCF5030□T150	15	M	1KHz, 0.25V	0.142	1.050
PCF5030□T180	18	M	1KHz, 0.25V	0.160	0.950
PCF5030□T220	22	M	1KHz, 0.25V	0.208	0.860
PCF5030□T270	27	M	1KHz, 0.25V	0.222	0.750
PCF5030□T330	33	M	1KHz, 0.25V	0.257	0.720
PCF5030□T470	47	M	1KHz, 0.25V	0.352	0.620
PCF5030□T680	68	M	1KHz, 0.25V	0.525	0.510
PCF5030□T101	100	M	1KHz, 0.25V	0.801	0.430
PCF5030□T121	120	M	1KHz, 0.25V	0.850	0.340
PCF5030□T151	150	M	1KHz, 0.25V	1.100	0.260
PCF5030□T181	180	M	1KHz, 0.25V	1.190	0.240
PCF5030□T221	220	M	1KHz, 0.25V	1.530	0.200
PCF5030□T331	330	M	1KHz, 0.25V	2.030	0.190
PCF5030□T391	390	M	1KHz, 0.25V	3.000	0.160
PCF5030□T471	470	M	1KHz, 0.25V	3.500	0.150
PCF5030□T561	560	M	1KHz, 0.25V	4.450	0.140

PCF6020 Type(□:Tolerance):

Part No	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
PCF6020□T1R3	1.3	N	100KHz, 0.1V	0.031	3.200
PCF6020□T1R5	1.5	N	100KHz, 0.1V	0.035	3.100
PCF6020□T2R2	2.2	N	100KHz, 0.1V	0.040	2.700
PCF6020□T3R3	3.3	N	100KHz, 0.1V	0.060	2.100
PCF6020□T4R7	4.7	M	100KHz, 0.1V	0.070	1.800
PCF6020□T5R3	5.3	M	100KHz, 0.1V	0.075	1.700
PCF6020□T6R2	6.2	M	100KHz, 0.1V	0.085	1.600
PCF6020□T6R8	6.8	M	100KHz, 0.1V	0.090	1.500
PCF6020□T8R2	8.2	M	100KHz, 0.1V	0.125	1.450
PCF6020□T100	10	M	100KHz, 0.1V	0.150	1.250
PCF6020□T150	15	M	100KHz, 0.1V	0.220	1.100
PCF6020□T220	22	M	100KHz, 0.1V	0.320	0.900
PCF6020□T330	33	M	100KHz, 0.1V	0.450	0.800
PCF6020□T470	47	M	100KHz, 0.1V	0.600	0.700
PCF6020□T680	68	M	100KHz, 0.1V	0.900	0.500
PCF6020□T820	82	M	100KHz, 0.1V	1.000	0.450
PCF6020□T101	100	M	100KHz, 0.1V	1.200	0.420
PCF6020□T151	150	M	100KHz, 0.1V	1.800	0.350

**Electrical Characteristics**

PCF6030 Type(□:Tolerance):

Part No	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
PCF6030□T2R2	2.2	N	100KHz, 0.1V	0.030	3.000
PCF6030□T3R3	3.3	N	100KHz, 0.1V	0.036	2.800
PCF6030□T4R7	4.7	M	100KHz, 0.1V	0.045	2.600
PCF6030□T5R3	5.3	M	100KHz, 0.1V	0.045	2.500
PCF6030□T6R2	6.2	M	100KHz, 0.1V	0.070	1.800
PCF6030□T6R8	6.8	M	100KHz, 0.1V	0.072	1.700
PCF6030□T8R2	8.2	M	100KHz, 0.1V	0.080	1.600
PCF6030□T100	10	M	100KHz, 0.1V	0.085	1.400
PCF6030□T150	15	M	100KHz, 0.1V	0.120	1.200
PCF6030□T220	22	M	100KHz, 0.1V	0.160	1.100
PCF6030□T330	33	M	100KHz, 0.1V	0.220	1.000
PCF6030□T470	47	M	100KHz, 0.1V	0.300	0.800
PCF6030□T680	68	M	100KHz, 0.1V	0.400	0.560
PCF6030□T820	82	M	100KHz, 0.1V	0.480	0.500
PCF6030□T101	100	M	100KHz, 0.1V	0.560	0.450
PCF6030□T151	150	M	100KHz, 0.1V	1.000	0.350

PCF6915 Type(□:Tolerance):

Part No	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
PCF6915□T1R0	1.0	M, N	100KHz, 0.25V	0.050	3.28
PCF6915□T1R5	1.5	M, N	100KHz, 0.25V	0.067	2.53
PCF6915□T2R0	2.0	M, N	100KHz, 0.25V	0.085	2.06
PCF6915□T2R7	2.7	M, N	100KHz, 0.25V	0.110	1.87
PCF6915□T3R3	3.3	M, N	100KHz, 0.25V	0.130	1.58
PCF6915□T3R9	3.9	M, N	100KHz, 0.25V	0.160	1.46
PCF6915□T4R7	4.7	M, N	100KHz, 0.25V	0.200	1.30
PCF6915□T5R6	5.6	M, N	100KHz, 0.25V	0.230	1.22
PCF6915□T6R8	6.8	M, N	100KHz, 0.25V	0.280	1.16
PCF6915□T8R2	8.2	M, N	100KHz, 0.25V	0.310	1.13
PCF6915□T100	10	M	1KHz, 0.25V	0.330	1.03
PCF6915□T120	12	M	1KHz, 0.25V	0.460	0.87
PCF6915□T150	15	M	1KHz, 0.25V	0.530	0.80
PCF6915□T180	18	M	1KHz, 0.25V	0.620	0.73
PCF6915□T220	22	M	1KHz, 0.25V	0.700	0.71
PCF6915□T270	27	M	1KHz, 0.25V	0.910	0.65
PCF6915□T330	33	M	1KHz, 0.25V	1.150	0.57
PCF6915□T390	39	M	1KHz, 0.25V	1.380	0.50
PCF6915□T470	47	M	1KHz, 0.25V	1.540	0.48
PCF6915□T560	56	M	1KHz, 0.25V	1.860	0.45
PCF6915□T680	68	M	1KHz, 0.25V	2.320	0.41
PCF6915□T820	82	M	1KHz, 0.25V	2.540	0.37
PCF6915□T101	100	M	1KHz, 0.25V	3.200	0.32
PCF6915□T121	120	M	1KHz, 0.25V	4.240	0.29
PCF6915□T151	150	M	1KHz, 0.25V	4.770	0.27
PCF6915□T181	180	M	1KHz, 0.25V	6.040	0.24
PCF6915□T221	220	M	1KHz, 0.25V	7.950	0.22
PCF6915□T271	270	M	1KHz, 0.25V	10.51	0.19
PCF6915□T331	330	M	1KHz, 0.25V	11.63	0.18
PCF6915□T391	390	M	1KHz, 0.25V	12.97	0.16
PCF6915□T471	470	M	1KHz, 0.25V	16.87	0.15
PCF6915□T561	560	M	1KHz, 0.25V	22.30	0.13
PCF6915□T681	680	M	1KHz, 0.25V	25.11	0.12
PCF6915□T821	820	M	1KHz, 0.25V	28.41	0.10

**Electrical Characteristics**

PCF6919 Type(□:Tolerance):

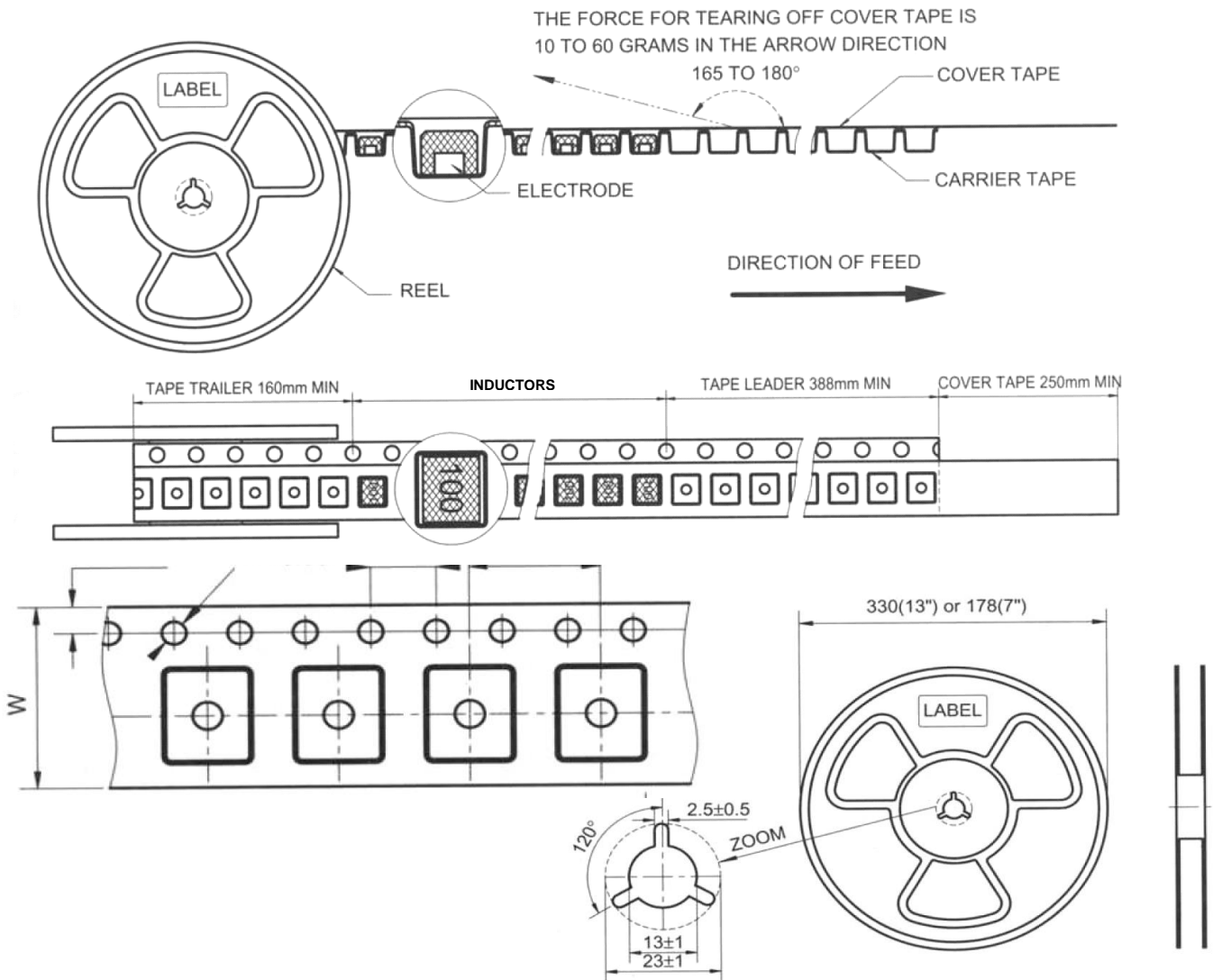
Part No	L ( $\mu$ H)	Tolerance	Test Condition	DCR ( $\Omega$ ) max.	IDC (A) max.
PCF6919□TR36	0.36	N	100KHz, 0.25V	0.015	8.00
PCF6919□TR82	0.82	M, N	100KHz, 0.25V	0.035	3.52
PCF6919□T1R0	1.0	M, N	100KHz, 0.25V	0.035	3.52
PCF6919□T1R8	1.8	M, N	100KHz, 0.25V	0.052	3.05
PCF6919□T2R2	2.2	M, N	100KHz, 0.25V	0.071	2.50
PCF6919□T3R0	3.0	M, N	100KHz, 0.25V	0.086	2.15
PCF6919□T3R9	3.9	M, N	100KHz, 0.25V	0.110	2.01
PCF6919□T4R7	4.7	M, N	100KHz, 0.25V	0.130	1.95
PCF6919□T5R6	5.6	M, N	100KHz, 0.25V	0.150	1.82
PCF6919□T6R8	6.8	M, N	100KHz, 0.25V	0.170	1.67
PCF6919□T8R2	8.2	M, N	100KHz, 0.25V	0.190	1.52
PCF6919□T100	10	M	1KHz, 0.25V	0.240	1.39
PCF6919□T120	12	M	1KHz, 0.25V	0.290	1.22
PCF6919□T150	15	M	1KHz, 0.25V	0.380	1.09
PCF6919□T180	18	M	1KHz, 0.25V	0.440	1.03
PCF6919□T220	22	M	1KHz, 0.25V	0.490	0.95
PCF6919□T270	27	M	1KHz, 0.25V	0.640	0.84
PCF6919□T330	33	M	1KHz, 0.25V	0.740	0.80
PCF6919□T390	39	M	1KHz, 0.25V	0.910	0.75
PCF6919□T470	47	M	1KHz, 0.25V	1.020	0.69
PCF6919□T560	56	M	1KHz, 0.25V	1.260	0.63
PCF6919□T680	68	M	1KHz, 0.25V	1.570	0.56
PCF6919□T820	82	M	1KHz, 0.25V	1.890	0.51
PCF6919□T101	100	M	1KHz, 0.25V	2.120	0.47
PCF6919□T121	120	M	1KHz, 0.25V	2.550	0.42
PCF6919□T151	150	M	1KHz, 0.25V	3.370	0.37
PCF6919□T181	180	M	1KHz, 0.25V	3.730	0.32
PCF6919□T221	220	M	1KHz, 0.25V	4.540	0.29
PCF6919□T271	270	M	1KHz, 0.25V	5.970	0.25
PCF6919□T331	330	M	1KHz, 0.25V	7.740	0.23
PCF6919□T391	390	M	1KHz, 0.25V	9.920	0.21
PCF6919□T471	470	M	1KHz, 0.25V	12.95	0.18
PCF6919□T561	560	M	1KHz, 0.25V	14.36	0.16
PCF6919□T681	680	M	1KHz, 0.25V	18.52	0.14
PCF6919□T821	820	M	1KHz, 0.25V	20.23	0.13
PCF6919□T102	1000	M	1KHz, 0.25V	28.25	0.11
PCF6919□T122	1200	M	1KHz, 0.25V	31.85	0.10
PCF6919□T152	1500	M	1KHz, 0.25V	36.72	0.095

**■Electrical Characteristics**

PCF7040 Type(□:Tolerance):

Part No	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
PCF7040□TR36	0.36	N	100KHz, 0.25V	0.005	9.24
PCF7040□TR56	0.56	N	100KHz, 0.25V	0.006	8.50
PCF7040□TR80	0.80	N	100KHz, 0.25V	0.009	5.80
PCF7040□T1R0	1.0	M, N	100KHz, 0.25V	0.040	2.10
PCF7040□T1R2	1.2	M, N	100KHz, 0.25V	0.040	2.10
PCF7040□T1R5	1.5	M, N	100KHz, 0.25V	0.040	2.10
PCF7040□T1R8	1.8	M, N	100KHz, 0.25V	0.040	2.09
PCF7040□T2R2	2.2	M, N	100KHz, 0.25V	0.041	2.08
PCF7040□T2R5	2.5	M, N	100KHz, 0.25V	0.041	2.08
PCF7040□T3R3	3.3	M, N	100KHz, 0.25V	0.041	2.07
PCF7040□T4R3	4.3	M, N	100KHz, 0.25V	0.041	2.06
PCF7040□T4R7	4.7	M, N	100KHz, 0.25V	0.042	2.05
PCF7040□T5R6	5.6	M, N	100KHz, 0.25V	0.043	2.04
PCF7040□T6R8	6.8	M, N	100KHz, 0.25V	0.044	2.04
PCF7040□T8R2	8.2	M, N	100KHz, 0.25V	0.047	2.02
PCF7040□T100	10	M	1KHz, 0.25V	0.049	2.00
PCF7040□T120	12	M	1KHz, 0.25V	0.058	1.90
PCF7040□T150	15	M	1KHz, 0.25V	0.081	1.60
PCF7040□T180	18	M	1KHz, 0.25V	0.091	1.48
PCF7040□T220	22	M	1KHz, 0.25V	0.110	1.32
PCF7040□T270	27	M	1KHz, 0.25V	0.150	1.26
PCF7040□T330	33	M	1KHz, 0.25V	0.170	1.10
PCF7040□T390	39	M	1KHz, 0.25V	0.230	1.05
PCF7040□T470	47	M	1KHz, 0.25V	0.260	1.00
PCF7040□T560	56	M	1KHz, 0.25V	0.350	0.85
PCF7040□T680	68	M	1KHz, 0.25V	0.380	0.78
PCF7040□T820	82	M	1KHz, 0.25V	0.430	0.74
PCF7040□T101	100	M	1KHz, 0.25V	0.610	0.70
PCF7040□T121	120	M	1KHz, 0.25V	0.660	0.60
PCF7040□T151	150	M	1KHz, 0.25V	0.880	0.52
PCF7040□T181	180	M	1KHz, 0.25V	0.980	0.46
PCF7040□T221	220	M	1KHz, 0.25V	1.170	0.40
PCF7040□T271	270	M	1KHz, 0.25V	1.640	0.36
PCF7040□T331	330	M	1KHz, 0.25V	1.860	0.32
PCF7040□T391	390	M	1KHz, 0.25V	2.850	0.28
PCF7040□T471	470	M	1KHz, 0.25V	3.010	0.26
PCF7040□T561	560	M	1KHz, 0.25V	3.620	0.24
PCF7040□T681	680	M	1KHz, 0.25V	4.630	0.22
PCF7040□T821	820	M	1KHz, 0.25V	5.200	0.20
PCF7040□T102	1000	M	1KHz, 0.25V	6.000	0.18

**■Tape and Reel specifications**



Unit: mm

Type	Tape size		Parts Per Reel
	W	P	13"
PCF4010	12	8	3500
PCF4020	12	8	3500
PCF4030	12	8	2500
PCF5010	12	8	4000
PCF5020	12	8	3500
PCF5030	12	8	2000
PCF6020	16	12	1500
PCF6030	16	12	1500
PCF6915	16	12	2000
PCF6919	16	12	2000
PCF7040	16	12	1000

**■ SMT Power Inductor Environmental Specifications**

General

Items	Specifications
Shelf Storage conditions	Temperature range: 15~28°C; Humidity: <80% relative humidity. Recommended product should be used within one year from the time of delivery.

Environmental test

Test Items	Specifications	Test Conditions / Test Methods
High temperature Storage test	No case deformation or change in appearance. $\Delta L/L \leq 10\%$	Temperature 85±2°C, Time: 48±2 hours, Tested after 1hour at room temperature.
Low temperature Storage test		Temperature -25±2°C, Time: 48±2 hours, Tested after 1hour at room temperature.
Humidity test		Temperature 40±2°C, 90~95% relative humidity Time: 96±2 hours Tested after 1hour at room temperature.
Thermal shock test		First -25°C 30minutes then 25°C 10 minutes last 85°C 30 minutes, as 1 cycle. Go through 5 cycles. Tested after 1 hour at room temperature.

Mechanical test

Test Items	Specifications	Test Conditions / Test Methods
Solderability test	Terminal area must have 90% minimum solder coverage.	Product with Lead-free terminal: Dip pads in flux then dip in solder pot at 245±5°C for 3 seconds.
Resistance to Soldering Heat	No case deformation or change in appearance.	Flux should cover the whole of the sample before heating, then be preheated for about 2 minutes over temperature of 130~150°C. Immersing to 260±5°C for 10 seconds.
Vibration test	No case deformation or change in appearance.	Apply frequency 10~55Hz. 1.5mm amplitude in each of perpendicular direction for 2 hours.
Shock resistance	$\Delta L/L \leq 10\%$	Drop down with 981m/s <sup>2</sup> (100G) shock attitude upon a rubber block method shock testing machine, for 1 time. In each of three orientations.

The condition of reflow (recommendation):

