

**HIGH CURRENT SURFACE-MOUNT POWER INDUCTORS****FWSDR SERIES****0302,0403,0504,0703,0705,1004,1005****FEATURES:**

- Current up to 6.8A
- Larg Current
- Flat-top for Pick & Place
- Low cost

OPTIONS:

- Tape & Reel is Standard
- Bulk Packaging Available for Smaller Quantities
- Tolerance:10% and 20% is Standard
- Custom Design Available

COMMON APPLICATIONS:

- Ideal for Palm-Top and Laptop DC-DC Converters
- PDA's Flash Memory
- Step-up, Step-down Converters
- Top-box

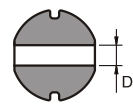
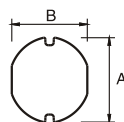
STANDARD SPECIFICATION:

Part Number	Inductance μH	DCR(Ω)										IDC(A) Max							
		SDR0302	SDR0403	SDR0503	SDR0504	SDR0703	SDR0705	SDR1004	SDR1005	SDR1008	SDR0302	SDR0403	SDR0503	SDR0504	SDR0703	SDR0705	SDR1004	SDR1005	SDR1008
1R0	1.0	0.07	0.049	0.03	0.028						2.080	2.560	4.500	3.000					
1R4	1.4	0.09	0.057	0.04	0.029						1.860	2.520	4.000	2.800					
1R8	1.8	0.11	0.064	0.05	0.030						1.800	1.950	3.300	2.600					
2R2	2.2	0.13	0.072	0.06	0.042						1.390	1.750	2.940	2.300					
2R7	2.7	0.14	0.079	0.07	0.044						1.320	1.580	2.500	2.100					
3R3	3.3	0.20	0.087	0.08	0.045						1.250	1.440	2.350	2.000					
3R9	3.9	0.21	0.094	0.09	0.047						1.200	1.330	2.200	1.950					
4R7	4.7	0.33	0.109	0.14	0.048						1.030	1.150	2.000	1.900					
5R6	5.6	0.35	0.126	0.15	0.050						0.910	1.100	1.800	1.800					
6R8	6.8	0.38	0.132	0.16	0.060						0.850	1.080	1.700	1.600					
8R2	8.2	0.43	0.147	0.17	0.090						0.820	1.050	1.400	1.500					
100	10	0.50	0.182	0.18	0.10	0.08	0.07	0.05	0.06	0.036	0.740	1.040	1.200	1.440	1.440	2.300	2.380	2.600	4.050
120	12	0.65	0.210	0.20	0.12	0.09	0.08	0.06	0.07	0.038	0.640	0.970	1.180	1.400	1.390	2.000	2.130	2.450	3.600
150	15	0.82	0.235	0.22	0.14	0.10	0.09	0.07	0.08	0.04	0.600	0.850	1.150	1.300	1.240	1.800	1.870	2.270	3.340
180	18	0.90	0.338	0.25	0.15	0.11	0.10	0.08	0.09	0.05	0.540	0.740	1.100	1.230	1.120	1.600	1.730	2.150	3.050
220	22	1.14	0.378	0.35	0.18	0.13	0.11	0.09	0.10	0.06	0.500	0.680	1.000	1.110	1.070	1.500	1.600	1.950	2.800
270	27	1.39	0.522	0.45	0.20	0.15	0.12	0.10	0.11	0.07	0.430	0.620	0.860	0.970	0.940	1.300	1.440	1.760	2.500
330	33	1.55	0.540	0.56	0.23	0.17	0.13	0.12	0.12	0.08	0.400	0.560	0.760	0.880	0.850	1.200	1.260	1.500	2.400
390	39	2.15	0.587	0.698	0.32	0.22	0.16	0.15	0.14	0.09	0.370	0.520	0.750	0.800	0.740	1.100	1.200	1.370	2.200
470	47	2.44	0.844	0.72	0.37	0.25	0.18	0.17	0.17	0.11	0.360	0.440	0.730	0.720	0.680	1.100	1.100	1.280	2.000
560	56	2.68	0.937	0.84	0.42	0.28	0.24	0.20	0.19	0.12	0.310	0.420	0.550	0.680	0.640	0.940	1.010	1.170	1.900
680	68	3.05	1.117	0.90	0.46	0.33	0.28	0.22	0.22	0.15	0.300	0.370	0.520	0.610	0.590	0.850	0.910	1.110	1.800
820	82	3.48	1.200	0.95	0.60	0.41	0.37	0.25	0.25	0.19	0.280	0.300	0.500	0.580	0.540	0.780	0.850	1.000	1.600
101	100	3.84	1.440	1.30	0.70	0.48	0.43	0.34	0.35	0.23	0.250	0.280	0.400	0.520	0.510	0.720	0.740	0.970	1.500
121	120	5.76	1.660	1.38	0.93	0.54	0.47	0.40	0.40	0.32	0.200	0.240	0.360	0.480	0.490	0.660	0.690	0.890	1.400
151	150	6.62	1.880	1.81	1.10	0.75	0.64	0.54	0.47	0.37	0.190	0.220	0.300	0.400	0.400	0.580	0.610	0.780	1.300
181	180	7.36	2.180	1.95	1.38	1.02	0.71	0.62	0.63	0.42	0.170	0.210	0.260	0.380	0.360	0.510	0.560	0.720	1.200
221	220	8.38	2.570	2.10	1.57	1.20	0.96	0.72	0.73	0.44	0.160	0.200	0.250	0.350	0.310	1R0	0.530	0.660	1.000
271	270	13.69	3.520	2.42	1.85	1.31	1.11	0.95	0.97	0.55	0.140	0.180	0.210	0.280	0.290	0.420	0.450	0.570	0.950
331	330	15.78	5.000	3.82	2.00	1.50	1.26	1.10	1.15	0.60	0.130	0.120	0.180	0.260	0.280	0.400	0.420	0.520	0.900
391	390	17.40	6.000	4.68	2.60	2.700	1.77	1.24	1.30	0.67	0.120	0.115	0.160	0.240	0.270	0.360	0.380	0.480	0.800
471	470	20.00	7.000	5.10	3.00	3.000	1.96	1.53	1.48	0.88	0.084	0.110	0.150	0.220	0.250	0.340	0.350	0.420	0.700
561	560			6.00	4.19			1.80	1.90	1.04			0.140	0.180			0.320	0.330	0.650
681	680			7.60	4.44				2.25	1.18			0.130	0.160				0.280	0.600
821	820			9.12	5.12				2.55	1.38			0.070	0.110			0.240	0.500	
102	1000			9.87	10.00					1.74			0.050	0.080				0.480	
122	1200									1.92									0.380

TECHNICAL INFORMATION:

- TEST FREQ.(L) with HP4284A and HP4285A (equivalent acceptable)
1.0-8.2 μH (7.95MHz) 10-82 μH (2.52MHz) 100-1200 μH (1KHz)
- Tolerance of inductance
FWSDR0302 1.0-470 $\mu H \pm 20\%$ (M)
FWSDR 0403 1.0-27 $\mu H \pm 20\%$ (M) 33-470 $\mu H \pm 10\%$ (K)
FWSDR0503 1.0-2.7 $\mu H \pm 20\%$ (M) 33-1000 $\mu H \pm 10\%$ (K)
FWSDR0504 1.0-27 $\mu H \pm 20\%$ (M) 33-47 $\mu H \pm 15\%$ (L) 56-1000 $\mu H \pm 10\%$ (K)
FWSDR0703 10-47 $\mu H \pm 20\%$ (M) 56-470 $\mu H \pm 10\%$ (K)
FWSDR 0705 10-470 $\mu H \pm 20\%$ (M)
FWSDR1004 10-47 $\mu H \pm 20\%$ (M) 56-560 $\mu H \pm 10\%$ (K)
FWSDR1005 10-39 $\mu H \pm 20\%$ (M) 47-820 $\mu H \pm 10\%$ (K)
FWSDR1008 10-82 $\mu H \pm 20\%$ (M) 100-1200 $\mu H \pm 10\%$ (K)
- DCR: GW813 or QuadTech 1880 Milliohmeter
- IDC Max is decreased 10% against its initial value

- Operating Temperature: -40°C to +85°C
 - Storage Temperature: -40°C to +105°C
 - Solder methods: Vapor Phase, Infrared Reflow
 - Resistance to soldering heat: 260°C for 10 seconds
 - Solvent resistance: Conforms to MIL-STD-202E
 - Marking: Inductance & Tolerance
- Note: All specification subject to change without noticed.

CHARACTERISTICS:**TERMINAL SHAPE DIMENSION:(mm)**

TYPE	A	B	C	D
FWSDR 0302	3.0 $\pm$ 0.3	2.8 $\pm$ 0.3	2.5 $\pm$ 0.3	0.8
FWSDR 0403	4.5 $\pm$ 0.3	4.0 $\pm$ 0.3	3.2 $\pm$ 0.3	1.3
FWSDR 0503	5.8 $\pm$ 0.3	5.2 $\pm$ 0.3	2.5 $\pm$ 0.3	1.3
FWSDR 0504	5.8 $\pm$ 0.3	5.2 $\pm$ 0.3	4.5 $\pm$ 0.3	1.3
FWSDR 0703	7.8 $\pm$ 0.3	7.0 $\pm$ 0.3	3.5 $\pm$ 0.3	2.1
FWSDR 0705	7.8 $\pm$ 0.3	7.0 $\pm$ 0.3	5.0 $\pm$ 0.3	2.1
FWSDR 1004	10.0 $\pm$ 0.3	9.0 $\pm$ 0.3	4.0 $\pm$ 0.3	2.1
FWSDR 1005	10.0 $\pm$ 0.3	9.0 $\pm$ 0.4	5.4 $\pm$ 0.3	2.1
FWSDR 1006	11.0Max	10.0Max	7.5Max	2.1
FWSDR 1008	11.0Max	10.0Max	8.5Max	2.1