

HIGH CURRENT SURFACE-MOUNT POWER INDUCTORS FASDR 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 : K=10%,M=20% is Standard
- Custom Design Available

COMMON APPLICATIONS:

- Ideal for Palm-Top and Laptop
- DC/DC Conveerters
- PDAis Flash Memory
- Step-up,Step-down Converters
- Top-box

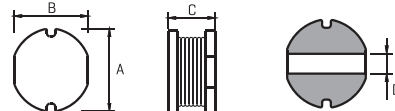
STANDARD SPECIFICATION:

Part Number	Inductance μH	DCR(ohm)									IDC[A] Max									
		0302	0403	0503	0504	0703	0705	1004	1005	1008	0302	0403	0503	0504	0703	0705	1004	1005	1008	
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							1.74			0.050	0.080					0.480
122	1200									1.92										0.380

TECHNICAL INFORMATION:

CHARACTERISTICS:

- 1.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)
- 2.Tolerance of inductance
FASDR0302 1.0-470 $\mu\text{H}\pm 20\%$ (M)
FASDR 0403 1.0-27 $\mu\text{H}\pm 20\%$ (M) 33-470 $\mu\text{H}\pm 10\%$ (K)
FASDR0503 1.0-2.7 $\mu\text{H}\pm 20\%$ (M) 33-1000 $\mu\text{H}\pm 10\%$ (K)
FASDR0504 1.0-27 $\mu\text{H}\pm 20\%$ (M) 33-47 $\mu\text{H}\pm 15\%$ (L) 56-1000 $\mu\text{H}\pm 10\%$ (K)
FASDR0703 10-47 $\mu\text{H}\pm 20\%$ (M) 56-470 $\mu\text{H}\pm 10\%$ (K)
FASDR 0705 10-470 $\mu\text{H}\pm 20\%$ (M)
FASDR1004 10-47 $\mu\text{H}\pm 20\%$ (M) 56-560 $\mu\text{H}\pm 10\%$ (K)
FASDR1005 10-39 $\mu\text{H}\pm 20\%$ (M) 47-820 $\mu\text{H}\pm 10\%$ (K)
FASDR1008 10-82 $\mu\text{H}\pm 20\%$ (M) 100-1200 $\mu\text{H}\pm 10\%$ (K)
- 3.DCR: GW813 or QuadTech 1880 Milliohmometer
- 4.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.



TERMINAL SHAPE DIMENSION:[mm]

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