

■ Surface Mount Toroidal Power Inductors SCT Series (表面接著型環形鐵芯功率電感-----SCT 系列)



● Features(特徵):

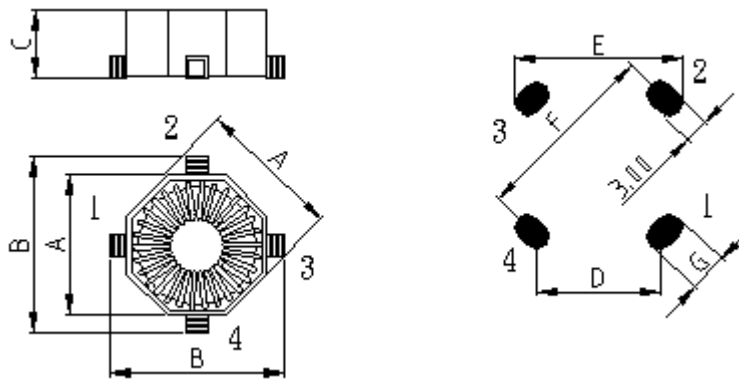
1. Maximum Power density.(最大功率密度。)
2. low EMI radiation with Powdered Iron cores.(低 EMI 輻射,設計為鐵粉芯。)
3. cost efficiency.(低價格。)

● Applications(應用):

EMI filters, DC-DC brick power supplies, Discrete output supplies, Discrete and point-of-use power supplies. Excellent for power line DC-DC conversion applications used in Power switching, personal computers and other handheld electronic equipment.

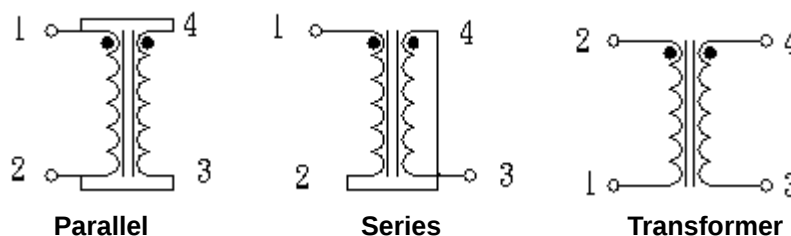
EMI 濾波器、直流—直流模塊電源供應、不連續輸出供應器、不連續和零星使用電源供應。也可適合於電源供應器、個人電腦和其他掌上型電子設備中電源線路上直流對直流整流的應用。

● Shape & Dimensions(外觀尺寸):



Series	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
SCT-1P	8.89±0.30	11.43±0.30	4.19 Max	7.03 Ref	10.72 Ref	9.96 Ref	3.68 Ref
SCT-2P	8.89±0.30	11.43±0.30	5.97 Max	7.03 Ref	10.72 Ref	9.96 Ref	3.68 Ref
SCT-3P	11.43±0.30	13.97±0.30	4.83 Max	8.84 Ref	12.50 Ref	12.50 Ref	4.06 Ref
SCT-4P	11.43±0.30	13.97±0.30	6.35 Max	8.84 Ref	12.50 Ref	12.50 Ref	4.06 Ref

● Connection Diagrams(線路圖):



● Note(注解):

- 1) Open Circuit Inductance Test Parameters: 100kHz, 0.250 Vrms, 0.0 Adc Parallel: (1,4 - 3,2)
Series: (1 - 3) tie (2 - 4).
- 2) RMS current, delta temp. of 40 ambient temperature of 85 .
- 3) Peak current for approximately 30% roll-off.
- 4) Values @ 20 , Maximum DCR is +15% of typical value.
- 5) Hi-pot rating: winding to winding: 300Vdc min.
- 6) Turns Ratio: (1-2):(4-3) 1:1

Surface Mount Toroidal Core Power Inductors

• Specification(規格): SCT-1P Series:

Part Number	Parallel				Series			
	L (0A) μ H $\pm$ 20%	L (f) μ H (Min)	If (A)	DCR Ω Max	L (0A) μ H $\pm$ 20%	L (f) μ H (Min)	If (A)	DCR Ω Max
SCT-R47-1P	0.42	0.31	5.50	0.006	1.67	1.25	2.75	0.022
SCT-R68-1P	0.60	0.43	5.10	0.007	2.40	1.74	2.55	0.025
SCT-1R0-1P	1.07	0.73	4.50	0.008	4.28	2.92	2.25	0.032
SCT-2R0-1P	2.02	1.36	3.40	0.014	8.08	5.44	1.70	0.054
SCT-5R0-1P	4.83	3.37	2.00	0.041	19.31	13.47	1.00	0.161
SCT-8R0-1P	8.08	5.31	1.80	0.052	32.33	21.23	0.90	0.208
SCT-100-1P	9.62	6.23	1.70	0.057	38.48	24.94	0.85	0.227
SCT-150-1P	15.03	9.62	1.40	0.087	60.12	38.48	0.70	0.348
SCT-200-1P	20.46	14.12	1.00	0.159	81.83	56.47	0.50	0.634
SCT-250-1P	25.4	17.07	0.96	0.177	101.6	68.29	0.48	0.708
SCT-330-1P	32.33	22.27	0.80	0.251	129.3	89.06	0.40	1.001
SCT-500-1P	50.52	33.57	0.70	0.316	202.0	134.3	0.35	1.263
SCT-680-1P	68.4	43.65	0.66	0.373	273.6	174.6	0.33	1.490
SCT-101-1P	99.01	63.64	0.54	0.557	396.0	254.5	0.27	2.227
SCT-151-1P	150.7	96.64	0.44	0.844	602.8	386.5	0.22	3.376

SCT-2P Series:

Part Number	Parallel				Series			
	L (0A) μ H $\pm$ 20%	L (f) μ H (Min)	If (A)	DCR Ω Max	L (0A) μ H $\pm$ 20%	L (f) μ H (Min)	If (A)	DCR Ω Max
SCT-R47-2P	0.54	0.42	5.90	0.006	2.18	1.69	2.950	0.024
SCT-R68-2P	0.85	0.64	5.40	0.008	3.40	2.55	2.700	0.029
SCT-1R0-2P	1.22	0.89	5.00	0.009	4.90	3.57	2.500	0.034
SCT-2R0-2P	2.18	1.56	3.90	0.014	8.70	6.26	1.950	0.056
SCT-5R0-2P	4.90	3.56	2.50	0.032	19.58	14.26	1.250	0.128
SCT-8R0-2P	7.66	5.31	2.30	0.04	30.60	21.23	1.150	0.159
SCT-100-2P	9.83	6.71	2.10	0.045	39.30	26.92	1.050	0.179
SCT-150-2P	14.99	10.51	1.60	0.085	59.98	42.02	0.800	0.339
SCT-200-2P	19.58	13.37	1.50	0.097	78.34	53.48	0.750	0.387
SCT-250-2P	24.79	16.60	1.40	0.109	99.14	66.38	0.700	0.436
SCT-330-2P	32.67	21.29	1.30	0.126	130.7	85.17	0.650	0.503
SCT-500-2P	49.10	35.31	0.82	0.306	196.4	141.2	0.410	1.221
SCT-680-2P	68.85	47.93	0.76	0.362	275.4	191.7	0.380	1.447
SCT-101-2P	99.14	69.56	0.62	0.541	396.6	278.2	0.310	2.162
SCT-151-2P	148.1	100.07	0.56	0.666	592.4	400.2	0.280	2.661

Surface Mount Toroidal Power Inductors

SCT-3P Series:

Part Number	Parallel				Series			
	L (0A) μ H $\pm$ 20%	L (f) μ H (Min)	If (A)	DCR Ω Max	L (0A) μ H $\pm$ 20%	L (f) μ H (Min)	If (A)	DCR Ω Max
SCT-R47-3P	0.46	0.35	6.20	0.007	1.85	1.42	3.10	0.025
SCT-R68-3P	0.67	0.50	5.70	0.008	2.66	1.98	2.85	0.029
SCT-1R0-3P	0.91	0.65	5.40	0.009	3.63	2.62	2.70	0.033
SCT-2R0-3P	1.85	1.24	4.60	0.012	7.40	4.97	2.30	0.045
SCT-5R0-3P	4.74	3.04	3.20	0.023	18.94	12.15	1.60	0.09
SCT-8R0-3P	8.16	4.90	2.80	0.03	32.62	19.6	1.40	0.119
SCT-100-3P	9.79	5.71	2.70	0.033	39.15	22.85	1.35	0.132
SCT-150-3P	14.50	8.50	2.20	0.05	58.02	34.01	1.10	0.198
SCT-200-3P	20.15	13.12	1.50	0.111	80.59	52.48	0.75	0.443
SCT-250-3P	25.35	16.16	1.40	0.125	101.3	64.66	0.70	0.499
SCT-330-3P	32.62	30.23	1.30	0.143	130.5	81.3	0.65	0.571
SCT-500-3P	50.02	33.06	0.92	0.277	200.1	132.2	0.46	1.108
SCT-680-3P	68.84	44.15	0.84	0.328	275.3	176.6	0.42	1.312
SCT-101-3P	101.3	65.50	0.68	0.502	405.2	262	0.34	2.005
SCT-151-3P	149.8	90.92	0.64	0.621	599.4	363.7	0.32	2.484

SCT-4P Series:

Part Number	Parallel				Series			
	L (0A) μ H $\pm$ 20%	L (f) μ H (Min)	If (A)	DCR Ω Max	L (0A) μ H $\pm$ 20%	L (f) μ H (Min)	If (A)	DCR Ω Max
SCT-R47-4P	0.49	0.37	7.90	0.005	1.95	1.49	3.95	0.019
SCT-R68-4P	0.76	0.56	7.20	0.006	3.05	2.24	3.60	0.023
SCT-1R0-4P	1.10	0.81	5.90	0.009	4.39	3.24	2.95	0.034
SCT-2R0-4P	1.95	1.42	4.60	0.014	7.81	5.69	2.30	0.055
SCT-5R0-4P	5.15	3.56	3.30	0.027	20.62	14.23	1.65	0.107
SCT-8R0-4P	7.81	5.15	3.00	0.033	31.23	20.61	1.50	0.131
SCT-100-4P	9.89	6.70	2.50	0.047	39.53	26.79	1.25	0.187
SCT-150-4P	14.76	9.52	2.30	0.057	59.05	38.09	1.15	0.228
SCT-200-4P	20.62	13.44	1.90	0.085	82.47	53.76	0.95	0.337
SCT-250-4P	25.65	17.17	1.60	0.116	102.6	68.68	0.80	0.462
SCT-330-4P	33.21	22.93	1.30	0.166	132.8	91.72	0.65	0.663
SCT-500-4P	48.80	32.21	1.20	0.202	195.2	128.8	0.60	0.805
SCT-680-4P	67.37	43.04	1.10	0.238	269.5	172.1	0.55	0.952
SCT-101-4P	99.09	69.54	0.72	0.565	396.8	278.1	0.36	2.259
SCT-151-4P	149.45	101.5	0.64	0.696	597.8	405.8	0.32	2.784