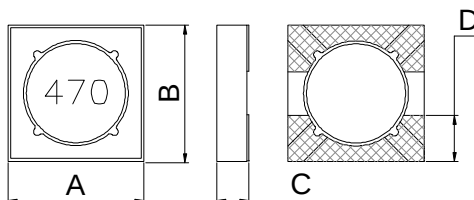
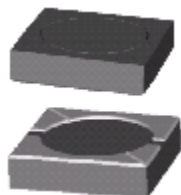


SPRI SERIES

SHIEDED SMD POWER INDUCTORS

MECHANICALS

CONSTRUCTION



I FEATURE

1. Five sizes of shielded drum core inductances with low profiles(as low as 1.2mm)and high power density.
2. Inductance range : 0.47uH to 1000uH .
3. Current range : 6.00 Amps to 0.094Amps
4. Ferrite shielded ,low EMI

I APPLICATIONS

1. Digital cameras,CD players, cellular phones,and PDAs

I DIMENSIONS (mm)

TYPE	A	B	C	D (REF)
SPRI383807	3.8±0.1	3.8±0.1	0.7 ±0.1	1.2
SPRI383815	3.8±0.1	3.8±0.1	1.5±0.1	1.2
SPRI383820	3.8±0.1	3.8±0.1	2.0±0.1	1.2
SPRI383832	3.8±0.1	3.8±0.1	3.2±0.1	1.2

特性

1. 具有小側面高功率密度(低至 1.2mm)5 種尺寸屏蔽式電感
2. 電感範圍：0.47 微亨 to 1000 微亨
3. 電流範圍：6.00 安培 to 0.094 安培
4. 鐵氧體屏蔽，低電磁干擾

用途

1. 數碼相機，CD 機,微型電話，掌中寶

I PART NUMBERING SYSTEM (品名規定)

<u>S P R I</u>	<u>3 8 3 8 0 7</u>	-	<u>1 0 0</u>	<u>M</u>
1	2		3	4
SHIELDED SMT	DIMENSIONS		INDUTANCE	TOLERANCE
POWER INDUCTORS	A、B、C DIM		10*10 ⁰ =10uH	J : ±5% K: ±10% L:±15%
				M: ±20% P: ±25% N: ±30
閉磁路貼片式功率電感 (DR+RI 型磁芯)	尺寸		電感值	公差

I ELECTRICAL SPECIFICATIONS

PART NUMBER	Rated Inductance (μ H)	OCL (μ H)	I _{rms} Amperess	I _{sat} Amperess	DCR (Ω)	Volt U-sec
SPRI383807-R47M	0.47	0.49	3.19	3.86	0.025	1.670
SPRI383807-1R2M	1.20	1.21	2.62	2.45	0.037	2.62
SPRI383807-1R5M	1.50	1.69	2.19	2.08	0.052	3.09
SPRI383807-2R2M	2.20	2.25	1.83	1.80	0.075	3.57
SPRI383807-3R3M	3.30	3.61	1.55	1.42	0.104	4.52
SPRI383807-4R7M	4.70	4.41	1.46	1.29	0.118	5.00
SPRI383807-6R2M	6.20	6.25	1.21	1.08	0.170	5.95
SPRI383807-8R2M	8.20	8.41	1.021	0.931	0.240	6.90
SPRI383807-100M	10.0	10.89	0.938	0.818	0.284	7.85
SPRI383807-150M	15.0	15.21	0.782	0.692	0.409	9.28
SPRI383807-220M	22.0	22.09	0.628	0.574	0.634	11.19
SPRI383807-330M	33.0	32.49	0.519	0.474	0.929	13.57
SPRI383807-470M	47.0	47.61	0.428	0.391	1.37	16.42
SPRI383807-680M	68.0	68.89	0.341	0.325	2.16	19.75
SPRI383807-820M	82.0	82.81	0.326	0.297	2.36	21.66
SPRI383807-101M	100	98.0	0.308	0.273	2.64	23.56
SPRI383807-151M	150	151.3	0.251	0.220	3.96	29.27
SPRI383807-221M	220	222.0	0.229	0.181	4.76	35.46
SPRI383807-331M	330	334.9	0.186	0.148	7.25	43.55
SPRI383807-471M	470	462.3	0.167	0.126	8.95	51.17
SPRI383807-681M	680	670.8	0.149	0.104	11.30	61.64
SPRI383807-821M	820	800.9	0.129	0.095	14.93	67.35
SPRI383807-102M	1000	992.3	0.121	0.086	17.20	74.97
SPRI383815-R47M	0.47	0.49	3.58	4.63	0.020	1.62
SPRI383815-R82M	0.82	0.81	3.24	3.60	0.025	2.09
SPRI383815-1R2M	1.20	1.21	2.97	2.95	0.029	2.55
SPRI383815-1R5M	1.50	1.69	2.73	2.49	0.036	3.02
SPRI383815-2R2M	2.20	2.25	2.55	2.16	0.040	3.48
SPRI383815-3R3M	3.30	3.61	2.07	1.71	0.060	4.41
SPRI383815-4R7M	4.70	4.41	1.77	1.54	0.082	4.87
SPRI383815-6R2M	6.20	6.25	1.61	1.30	0.100	5.80
SPRI383815-8R2M	8.20	8.41	1.38	1.12	0.135	6.73
SPRI383815-100M	10.0	10.89	1.28	0.98	0.158	7.66

I ELECTRICAL SPECIFICATIONS

PART NUMBER	Rated Inductance (μ H)	OCL (μ H)	I _{rms} Amperess	I _{sat} Amperess	DCR (Ω)	Volt U-sec
SPRI383815-150M	15.0	15.21	1.06	0.83	0.228	9.05
SPRI383815-220M	22.0	22.09	0.88	0.69	0.337	10.90
SPRI383815-330M	33.0	32.49	0.72	0.57	0.506	13.22
SPRI383815-470M	47.0	47.61	0.58	0.47	0.773	16.01
SPRI383815-680M	68.0	68.89	0.51	0.39	0.98	19.26
SPRI383815-820M	82.0	82.81	0.45	0.36	1.30	21.11
SPRI383815-101M	100	98.0	0.42	0.32	1.47	23.43
SPRI383815-151M	150	151.3	0.36	0.26	2.18	27.54
SPRI383815-221M	220	222.0	0.30	0.22	2.95	34.57
SPRI383815-331M	330	334.9	0.25	0.18	4.20	42.46
SPRI383815-471M	470	462.3	0.20	0.15	6.39	5..81
SPRI383815-681M	680	670.8	0.17	0.12	9.28	60.55
SPRI383815-821M	820	800.9	0.15	0.11	12.35	66.58
SPRI383815-102M	1000	992.3	0.14	0.10	14.01	73.54
SPRI383820-R47M	0.47	0.49	3.59	4.00	0.020	1.46
SPRI383820-1R2M	1.20	1.21	3.07	2.55	0.028	2.29
SPRI383820-1R5M	1.50	1.69	2.88	2.15	0.031	2.70
SPRI383820-2R2M	2.20	2.25	2.45	1.87	0.043	3.12
SPRI383820-3R3M	3.30	3.61	2.17	1.47	0.055	3.95
SPRI383820-4R7M	4.70	4.41	2.05	1.33	0.061	4.37
SPRI383820-6R2M	6.20	6.25	1.89	1.12	0.072	5.20
SPRI383820-8R2M	8.20	8.41	1.61	0.97	0.100	6.03
SPRI383820-100M	10.0	9.61	1.53	0.90	0.110	6.45
SPRI383820-150M	15.0	15.21	1.25	0.72	0.166	2.11
SPRI383820-220M	22.0	22.09	1.12	0.60	0.205	9.78
SPRI383820-330M	33.0	32.49	0.91	0.49	0.310	11.86
SPRI383820-470M	47.0	47.61	0.75	0.41	0.465	14.35
SPRI383820-680M	68.0	68.89	0.61	0.34	0.695	17.26
SPRI383820-820M	82.0	82.81	0.58	0.31	0.779	18.93
SPRI383820-101M	100	98.01	0.50	0.28	1.06	20.59
SPRI383820-151M	150	151.3	0.44	0.23	1.37	25.58
SPRI383820-221M	220	222.0	0.36	0.19	2.04	30.99
SPRI383820-331M	330	327.6	0.29	0.16	2.99	37.65

I ELECTRICAL SPECIFICATIONS

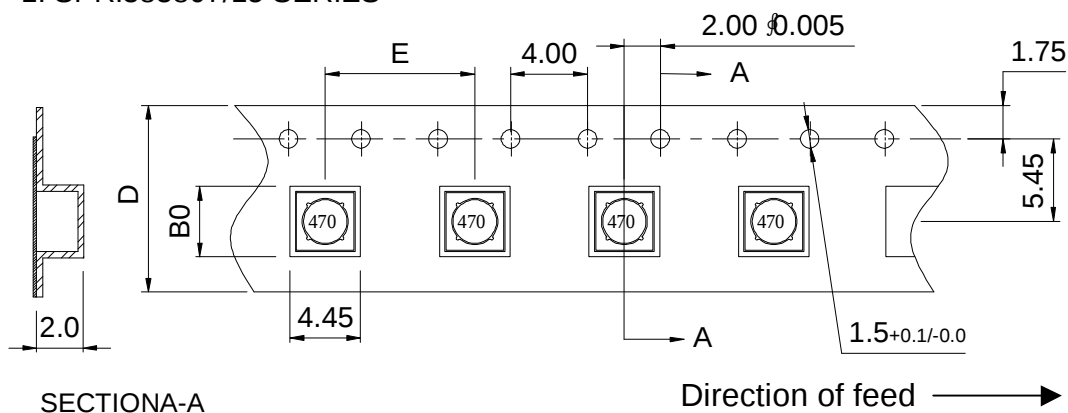
PART NUMBER	Rated Inductance (μH)	OCL (μH)	I _{rms} Amperess	I _{sat} Amperess	DCR (Ω)	Volt U-sec
SPRI383820-471M	470	470.9	0.26	0.13	3.74	45.14
SPRI383820-681M	680	681.2	0.22	0.11	5.56	54.29
SPRI383820-821M	820	823.7	0.20	0.10	6.22	59.70
SPRI383820-102M	1000	1004.9	0.17	0.09	8.73	65.94
SPRI383832-R47M	0.47	0.49	3.88	6.00	0.018	1.46
SPRI383832-R82M	0.82	0.77	3.58	4.67	0.021	1.87
SPRI383832-1R2M	1.20	1.21	3.33	3.81	0.024	2.29
SPRI383832-1R5M	1.50	1.69	3.12	3.23	0.027	2.70
SPRI383832-2R2M	2.20	2.25	2.93	2.80	0.031	3.12
SPRI383832-3R3M	3.30	3.61	2.64	2.21	0.038	3.95
SPRI383832-4R7M	4.70	4.41	2.39	1.83	0.047	4.78
SPRI383832-6R2M	6.20	6.25	2.19	1.56	0.056	5.62
SPRI383832-8R2M	8.20	8.41	1.92	1.45	0.072	6.03
SPRI383832-100M	10.0	9.61	1.80	1.27	0.082	6.86
SPRI383832-150M	15.0	15.21	1.67	1.08	0.096	8.11
SPRI383832-220M	22.0	22.09	1.34	0.86	0.148	10.19
SPRI383832-330M	33.0	32.49	1.11	0.71	0.215	12.27
SPRI383832-470M	47.0	47.61	0.92	0.59	0.316	14.77
SPRI383832-680M	68.0	68.89	0.74	0.48	0.485	17.68
SPRI383832-820M	82.0	82.81	0.71	0.44	0.524	19.34
SPRI383832-101M	100	98.01	0.67	0.40	0.594	21.42
SPRI383832-151M	150	151.3	0.55	0.33	0.872	26.00
SPRI383832-221M	220	222.0	0.45	0.27	1.34	31.82
SPRI383832-331M	330	327.6	0.36	0.22	2.07	38.90
SPRI383832-471M	470	470.9	0.29	0.18	3.10	46.38
SPRI383832-681M	680	681.2	0.26	0.15	3.88	55.54
SPRI383832-821M	820	823.7	0.23	0.14	5.04	61.36
SPRI383832-102M	1000	1004.9	0.22	0.13	5.70	67.60

1. Open circuit inductance test parameters:100KHz0.25Vrms,0.0ADC
2. RMS current for an approximate Δt of 40°C without core loss. It suggested that the temperature Of the part not exceed 125°C
3. peak current for approximate 30% roll off at 20°C
4. DCR limit@20°C
5. Applied volt –time product(V-US)across the inductor. This value represents the applied V-US at 100KHz necessary to generate a core loss equal to 10% the total losses for temperature rise.

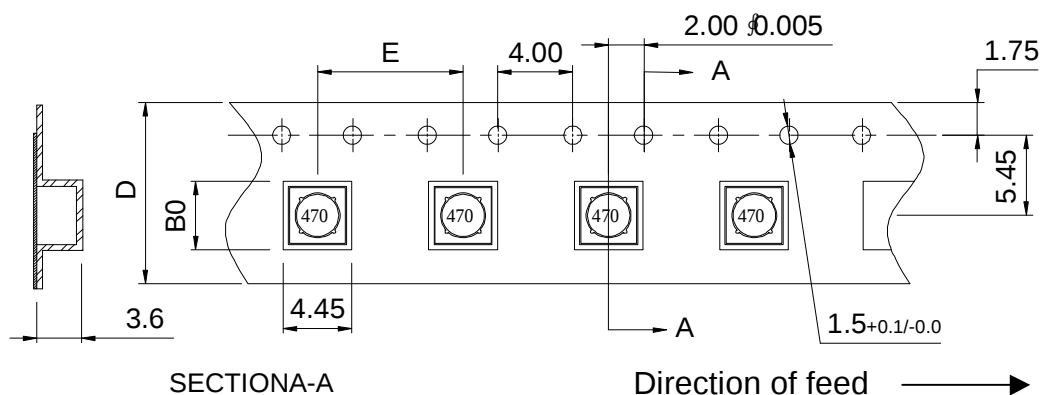


I PACKING

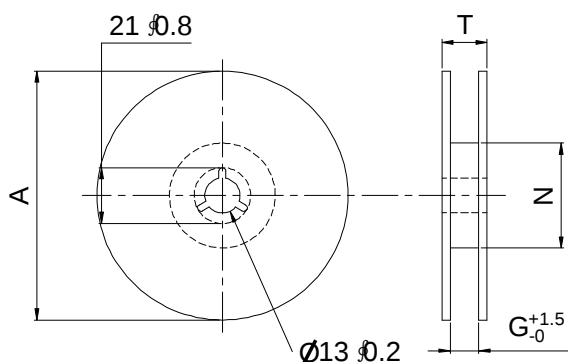
1. SPRI383807/15 SERIES



2. SPRI383820/32 SERIES



3. REEL



4. PACKING QUANTITY

PART NO.	A	B0	D	E	G	T	PCS/REEL
SPRI383807/15	330	4.45	16	8.0	16.4	20.4	2000
SPRI383820/32	330	4.45	16	8.0	16.4	20.4	1000