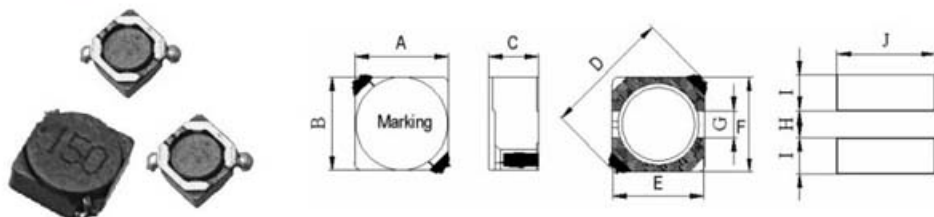


External Dimensions

(Unit:mm)



Series	A(Max.)	B(Max.)	C(Max.)	D(Max.)	E(Max.)	F(Max.)	G(Ref.)
SDRT4717	5.0	5.0	2.0	6.9	5.0	5.0	1.5
SDRT4727	5.0	5.0	3.0	6.9	5.0	5.0	1.5
SDRT5727	5.7	5.7	3.2	8.2	5.7	5.7	2.0
SDRT6727	7.0	7.0	3.0	9.5	7.0	7.0	2.0
SDRT6737	7.0	7.0	4.0	9.5	7.0	7.0	2.0

Feature

- ◆Extremely flat power inductor
- ◆High current capability
- ◆High reliability and perfect soldering characteristics because of a intergrated soldering pad
- ◆Magnetically shielded which results in a low leakage field

Applications

- ◆Portable power like PDA, digital camera
- ◆PCMICA—cards and displays
- ◆DC/DC converter
- ◆Recommended for switching regulator IC' s from Linear Technologies, etc.

Product Identification

SDRT 4717 - 180 L U
 a b c d e

a. Series Name

SDRT SDRT Series

c. Inductance Value

3R9 3.9 μ H

470 47 μ H

101 100 μ H

e. Special Code

U Lead Free Product

b. Dimensions (L)*(W)*(H)

4717 5.0*5.0*2.0 mm

4727 5.0*5.0*3.0 mm

6737 7.0*7.0*4.0 mm

d. Inductance Tolerance

L $\pm 15\%$

M $\pm 20\%$

N $\pm 30\%$



Electrical Characteristics

SDRT4717 Series

Part Number	Inductance (μ H)	Test Frequency (KHz)	DC Resistance (Ω) Max.	Rated DC Current (A) Max.
SDRT4717-1R0N	1.0	100	0.032	1.72
SDRT4717-2R2N	2.2	100	0.035	1.32
SDRT4717-2R7N	2.7	100	0.054	1.28
SDRT4717-3R3N	3.3	100	0.069	1.04
SDRT4717-3R9N	3.9	100	0.080	0.88
SDRT4717-4R7N	4.7	100	0.090	0.84
SDRT4717-5R6N	5.6	100	0.106	0.80
SDRT4717-6R8N	6.8	100	0.117	0.76
SDRT4717-8R2N	8.2	100	0.131	0.68
SDRT4717-100N	10	100	0.162	0.61
SDRT4717-120N	12	100	0.204	0.56
SDRT4717-150N	15	100	0.233	0.50
SDRT4717-180N	18	100	0.304	0.48
SDRT4717-220N	22	100	0.360	0.41
SDRT4717-270N	27	100	0.400	0.35
SDRT4717-330N	33	100	0.536	0.32
SDRT4717-390N	39	100	0.606	0.30

SDRT4727 Series

Part Number	Inductance (μ H)	Test Frequency (KHz)	DC Resistance (Ω) Max.	Rated DC Current (A) Max.
SDRT4727-1R2N	1.2	100	0.017	2.56
SDRT4727-1R8N	1.8	100	0.020	2.20
SDRT4727-2R2N	2.2	100	0.024	2.04
SDRT4727-2R7N	2.7	100	0.028	1.60
SDRT4727-3R3N	3.3	100	0.033	1.57
SDRT4727-3R9N	3.9	100	0.044	1.44
SDRT4727-4R7N	4.7	100	0.048	1.32
SDRT4727-5R6N	5.6	100	0.055	1.17
SDRT4727-6R8N	6.8	100	0.070	1.12
SDRT4727-8R2N	8.2	100	0.085	1.04
SDRT4727-100N	10	100	0.1	1.00
SDRT4727-120N	12	100	0.131	0.84
SDRT4727-150N	15	100	0.140	0.76
SDRT4727-180N	18	100	0.168	0.72
SDRT4727-220N	22	100	0.202	0.70
SDRT4727-270N	27	100	0.261	0.58
SDRT4727-330N	33	100	0.300	0.56
SDRT4727-390N	39	100	0.36	0.50
SDRT4727-470N	47	100	0.50	0.48
SDRT4727-560N	56	100	0.562	0.41
SDRT4727-680N	68	100	0.610	0.35

Electrical Characteristics

SDRT4727 Series

Part Number	Inductance (μ H)	Test Frequency (KHz)	DC Resistance (Ω) Max.	Rated DC Current (A) Max.
SDRT4727-820N	82	100	0.800	0.32
SDRT4727-101N	100	100	0.900	0.29
SDRT4727-121N	120	100	1.000	0.27
SDRT4727-151N	150	100	1.130	0.24
SDRT4727-181N	180	100	1.470	0.22

SDRT5727 Series

Part Number	Inductance (μ H)	Test Frequency (KHz)	DC Resistance (Ω) Max.	Rated DC Current (A) Max.
SDRT5727-2R5N	2.5	10	0.017	2.60
SDRT5727-3R0N	3.0	10	0.021	2.40
SDRT5727-4R2N	4.2	10	0.031	2.20
SDRT5727-5R3N	5.3	10	0.035	1.90
SDRT5727-6R2N	6.2	10	0.040	1.80
SDRT5727-8R2N	8.2	10	0.052	1.60
SDRT5727-100N	10	10	0.060	1.30
SDRT5727-120N	12	10	0.070	1.20
SDRT5727-150N	15	10	0.103	1.10
SDRT5727-180N	18	10	0.110	1.00
SDRT5727-220N	22	10	0.122	0.90
SDRT5727-270N	27	10	0.175	0.85
SDRT5727-330N	33	10	0.189	0.75
SDRT5727-390N	39	10	0.212	0.70
SDRT5727-470N	47	10	0.260	0.62
SDRT5727-560N	56	10	0.305	0.58
SDRT5727-680N	68	10	0.355	0.52
SDRT5727-820N	82	10	0.463	0.46
SDRT5727-101N	100	10	0.520	0.42

SDRT6727 Series

Part Number	Inductance (μ H)	Test Frequency (KHz)	DC Resistance (Ω) Max.	Rated DC Current (A) Max.
SDRT6727-3R0N	3.0	10	0.024	3.00
SDRT6727-3R9N	3.9	10	0.027	2.60
SDRT6727-5R0N	5.0	10	0.031	2.40
SDRT6727-6R0N	6.0	10	0.035	2.25
SDRT6727-7R3N	7.3	10	0.054	2.10
SDRT6727-8R6N	8.6	10	0.058	1.85
SDRT6727-100N	10	10	0.065	1.70
SDRT6727-120N	12	10	0.070	1.55
SDRT6727-150N	15	10	0.084	1.40



Electrical Characteristics

SDRT6727 Series

Part Number	Inductance (μ H)	Test Frequency (KHz)	DC Resistance (Ω) Max.	Rated DC Current (A) Max.
SDRT6727-180N	18	10	0.095	1.32
SDRT6727-220N	22	10	0.128	1.20
SDRT6727-270N	27	10	0.142	1.05
SDRT6727-330N	33	10	0.165	0.97
SDRT6727-390N	39	10	0.210	0.86
SDRT6727-470N	47	10	0.238	0.80
SDRT6727-560N	56	10	0.277	0.73
SDRT6727-680N	68	10	0.304	0.65
SDRT6727-820N	82	10	0.390	0.60
SDRT6727-101N	100	10	0.535	0.54

SDRT6737 Series

Part Number	Inductance (μ H)	Test Frequency (KHz)	DC Resistance (Ω) Max.	Rated DC Current (A) Max.
SDRT6737-3R3N	3.3	10	0.020	3.50
SDRT6737-5R0N	5.0	10	0.024	2.90
SDRT6737-6R2N	6.2	10	0.027	2.50
SDRT6737-7R4N	7.4	10	0.031	2.30
SDRT6737-8R7N	8.7	10	0.034	2.20
SDRT6737-100N	10	10	0.038	2.00
SDRT6737-120N	12	10	0.053	1.70
SDRT6737-150N	15	10	0.057	1.60
SDRT6737-180N	18	10	0.092	1.50
SDRT6737-220N	22	10	0.096	1.30
SDRT6737-270N	27	10	0.109	1.20
SDRT6737-330N	33	10	0.124	1.10
SDRT6737-390N	39	10	0.138	1.00
SDRT6737-470N	47	10	0.155	0.95
SDRT6737-560N	56	10	0.202	0.85
SDRT6737-680N	68	10	0.234	0.75
SDRT6737-820N	82	10	0.324	0.70
SDRT6737-101N	100	10	0.358	0.65

Note:

Rated DC Current: Inductance drops 35% (Max.) from its initial value, or temperature rise by 40°C (Ta=25°C), whichever is smaller.

Test equipment: Inductance is measured with WK3260A Meter or equivalent.

Operating temperature range: -25°C to +85°C