

⊕ Applications

Motherboards for laptop and desktop computers.  
DC/DC Converter in distributed power systems or VRM applications..  
Inductor for general purpose use.

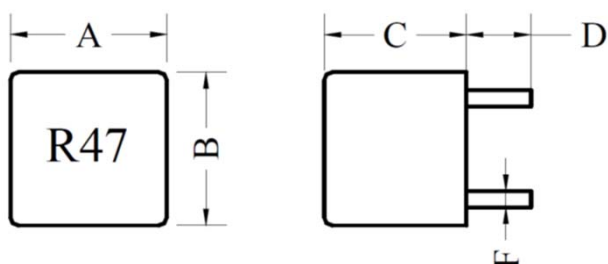
⊕ Product Identification :



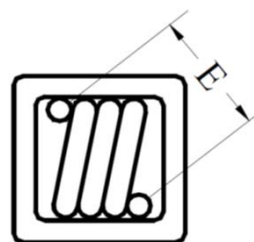
Series name	Dimensions(LxWxH)		Internal code
DAR	0807	8.2*8.2*6.8mm	A
	1109	11.7*11.7*9.7mm	:
			L = Low DCR
			S = Standard

Inductance		Tolerance	
1R5	1.5 μH	J	5%
4R7	4.7 μH	K	10%
100	10 μH	M	20%
330	33 μH	N	30%

⊕ Shapes And Dimensions



⊕ Recommended PCB Pattern



Part No.	Dimensions(mm)									
	A	B	C	D	E	F	G	H	J	
DAR0807S-R47M	8.20	8.20	6.80	3.50	5.50	0.90	-	-	-	
	Max.	Max.	Max.	±0.5	±1.0	±0.1	-	-	-	
DAR0807S-R60M	8.20	8.20	6.80	3.50	5.50	0.90	-	-	-	
	Max.	Max.	Max.	±0.5	±1.0	±0.1	-	-	-	
DAR0807S-R80M	8.20	8.20	6.80	3.50	6.50	0.90	-	-	-	
	Max.	Max.	Max.	±0.5	±1.0	±0.1	-	-	-	
DAR0807S-1R0M	8.20	8.20	6.80	3.50	6.50	0.90	-	-	-	
	Max.	Max.	Max.	±0.5	±1.0	±0.1	-	-	-	
DAR1109S-R47M	11.70	11.70	9.70	3.50	8.70	1.50	-	-	-	
	Max.	Max.	Max.	±0.5	±1.0	±0.1	-	-	-	
DAR1109S-R60M	11.70	11.70	9.70	3.50	8.70	1.50	-	-	-	
	Max.	Max.	Max.	±0.5	±1.0	±0.1	-	-	-	
DAR1109S-R80M	11.70	11.70	9.70	3.50	8.40	1.30	-	-	-	
	Max.	Max.	Max.	±0.5	±1.0	±0.1	-	-	-	
DAR1109S-1R0M	11.70	11.70	9.70	3.50	8.40	1.30	-	-	-	
	Max.	Max.	Max.	±0.5	±1.0	±0.1	-	-	-	

⊕ Electrical Characteristics :

Part No.	Inductance (nH)	DCR (mΩ)	Isat (Amperes)	Irms (Amperes)	Test Frequency (Hz / V)
DAR0807S-R47M	0.47 ± 20%	3.5 Max.	35 Max.	21 Max.	100K / 1
DAR0807S-R60M	0.6 ± 20%	3.5 Max.	30 Max.	20 Max.	100K / 1
DAR0807S-R80M	0.8 ± 20%	4 Max.	24 Max.	18 Max.	100K / 1
DAR0807S-1R0M	1 ± 20%	6 Max.	22 Max.	16 Max.	100K / 1

⊕ Electrical Characteristics :

Part No.	Inductance (nH)	DCR (mΩ)	Isat (Amperes)	Irms (Amperes)	Test Frequency (Hz / V)
DAR1109S-R47M	0.47 ± 20%	0.9 Max.	50 Max.	34 Max.	100K / 1
DAR1109S-R60M	0.6 ± 20%	0.9 Max.	50 Max.	33 Max.	100K / 1
DAR1109S-R80M	0.8 ± 20%	1.5 Max.	45 Max.	32 Max.	100K / 1
DAR1109S-1R0M	1 ± 20%	1.5 Max.	45 Max.	30 Max.	100K / 1

Note

1. Inductance at I-dc is a typical inductance value for the component taken at I-dc current.
2. Heating current that will cause an approximate  $\Delta T$  of 40°C without core loss.
3. Saturation current that will cause L0 approximately 20% rolloff with 25°C ambient temperature.
4. Testing ambient temperature is referenced to 25°C.
5. Operating temperature range -40°C to 120°C.