



AQ50xx Series SMD Power Inductor

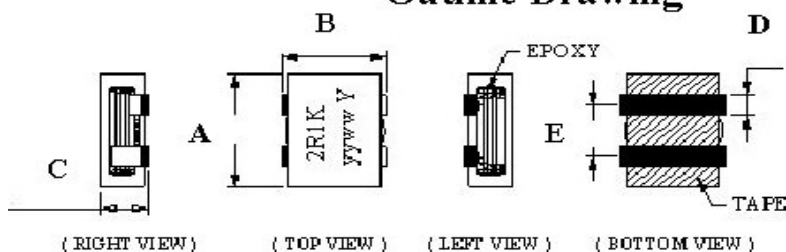


Features

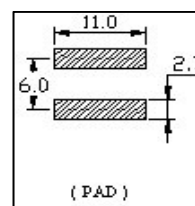
- Ferrite based material offers low core loss
- Optimized performance at 300khz to 2 Mhz
- Compact design (12.9x10.2mm) – Saves board space.
- Ideal for DC to DC Converter Applications
- Operating temperature -40°C to 130°C



Outline Drawing



Suggested Pad Layout



Dimensions (mm)

Part Number	A (±0.3)	B (±0.3)	C (±0.4)	D (±0.20)	E (±0.3)	QTYs per Reel
AQ5016	12.9	10.2	4.1	2.4	6.0	600
AQ5018	12.9	10.2	4.5	2.4	6.0	600
AQ5020	12.9	10.7	5.0	2.4	6.0	550
AQ5025	12.9	10.2	6.4	2.4	6.0	500

PART NUMBER	L (uH), 15% 300Khz 0.1V	DCR mOhm Typical, 10%	Irms Amp	Isat Amp
AQ5018-R22L	0.22	0.76	32.0	45.0
AQ5016-R38L	0.38	1.00	28.0	32.0
AQ5020-R47L	0.47	1.07	22.0	40.0
AQ5018-R63L	0.63	1.60	23.0	30.0
AQ5020-R95L	0.95	1.07	22.0	22.5
AQ5018-1R1L	1.12	2.80	16.0	22.0
AQ5018-1R7L	1.75	4.50	13.0	18.0
AQ5018-2R1L	2.10	4.50	13.0	17.0
AQ5025-2R5L	2.52	3.10	16.0	16.0
AQ5025-3R4L	3.42	4.70	12.0	14.0
AQ5025-4R5L	4.50	5.10	11.0	12.0
AQ5025-5R6L	5.67	6.70	10.6	10.6
AQ5025-7R0L	7.00	7.90	10.0	9.6
AQ5025-8R2L	8.20	8.10	6.0	9.0
AQ5025-100L	10.00	8.10	6.0	7.0

Test Condition: 300khz, 0.1V

- Isat: 20% Max Inductance Roll off (as compared with inductance at No Load)
- Irms: 40°C temperature rise