

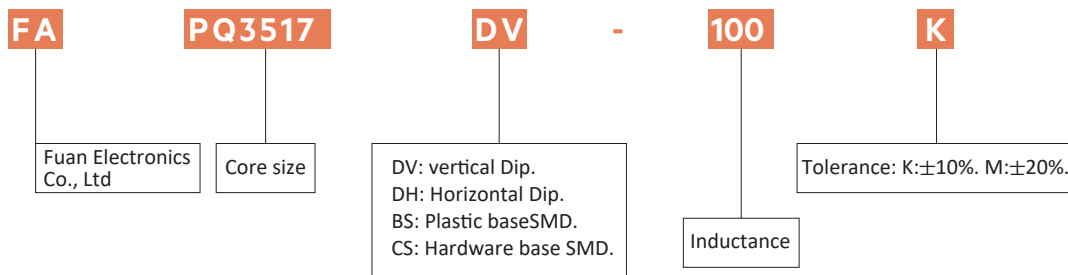
HIGH CURRENT POWER INDUCTOR

FAPQ35 SERIES



ELECTRICAL SPECIFICATION

- Assemblage design, sturdy structure
- High current, low magnetic loss, low ESR, small parasitic capacitance
- Flat wire winding, achieve a low DCR. Temperature rise current and saturation current is less influenced by environment
- Operating Temperature Range: -40°C to +125°C. (Including coilis temperature rise)
- All Parts Meet Rohs Compliance.



ELECTRICAL CHARACTERISTICS AT 25°C

Part Number	Ind.(uH)	D.C.Resistance (mΩ)		I _{last} (A)Typical Drop20%	I _{rms} (A)Typical: ^Δ t40°C
		Typ	Max		
FAPQ3514□-1R0M	1.0	0.87	1.00	200	50.0
FAPQ3514□-1R5M	1.5	0.87	1.00	150	50.0
FAPQ3514□-2R2M	2.2	0.87	1.00	100	50.0
FAPQ3514□-3R3M	3.3	0.87	1.00	73	50.0
FAPQ3514□-4R7M	4.7	0.87	1.00	52	50.0
FAPQ3517□-5R6M	5.6	1.3	1.50	63	45.0
FAPQ3517□-6R8M	6.8	1.3	1.50	50	45.0
FAPQ3517□-8R2M	8.2	1.3	1.50	45	45.0
FAPQ3520□-100K	10	1.92	2.10	55	40.0
FAPQ3520□-150K	15	1.92	2.10	40	40.0
FAPQ3520□-220K	22	1.92	2.10	23	40.0

Product datasheet

ELECTRICAL CHARACTERISTICS AT 25°C

Dimension in mm

Part Number	Ind.(uH)	D.C.Resistance (mΩ)		I _{last} (A)Typical		I _{rms} (A)Typical: ^Δ t40°C
		Typ	Max	Drop20%		
FAPQ3520□-330K	33.0	1.92	2.10	17		40.0
FAPQ3522□-1R0M	1.0	0.39	0.50	200		90.0
FAPQ3522□-1R5M	1.5	0.39	0.50	160		90.0
FAPQ3522□-2R0M	2.0	0.39	0.50	125		90.0
FAPQ3522□-2R5M	2.5	0.39	0.50	100		90.0
FAPQ3528□-3R0M	3.0	0.59	0.70	140		80.0
FAPQ3528□-4R0M	4.0	0.59	0.70	90		80.0
FAPQ3528□-5R0M	5.0	0.59	0.70	75		80.0

TEST CONDITIONS:

- 1.All data is tested based on 25°C ambient temperature.
- 2.Inductance measure condition at 100KHz 0.1V.
- 3.Temperature rise current: the actual value of DC current when the temperature rise is T40°C(Ta=25°C).
- 4.Special remind: Circuit design,component planement,PWB size and thickness,cooling system and etc.all will affect the product temperature.Please verify the product temperature in the final application..

ELECTRICAL INFORMATION

Dimension in mm

35xxDV

A	29.0 Max	H	3.50±0.50
B	36.0 Max	J	12.0 REF
C	6.00±0.50	K	7.00 REF
D	6.00±0.30	L	1.50 REF
E	12.0±0.50		
	F	G	I
3514	4.60±0.5	14.8 Max	4.60 REF
3517	7.00±0.5	17.8 Max	7.00 REF
3520	10.6±0.5	20.8 Max	10.6 REF

35xxDH

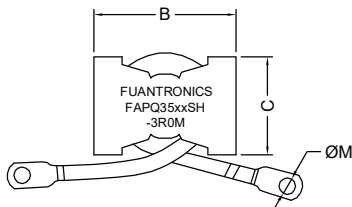
A	35.0 Max	H	3.50±0.50
B	36.0 Max	J	12.0 REF
C	6.00±0.50	K	7.00 REF
D	6.00±0.30	P	1.50 REF
E	27.0Max		
F	3514	14.8 Max	
	3517	17.8 Max	
	3520	20.8 Max	

Product datasheet

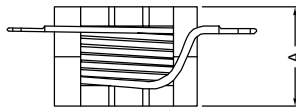
ELECTRICAL INFORMATION

Dimension in mm

35xxSH



Top view

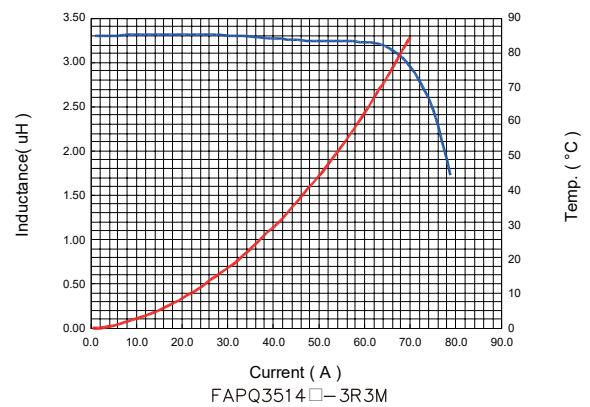
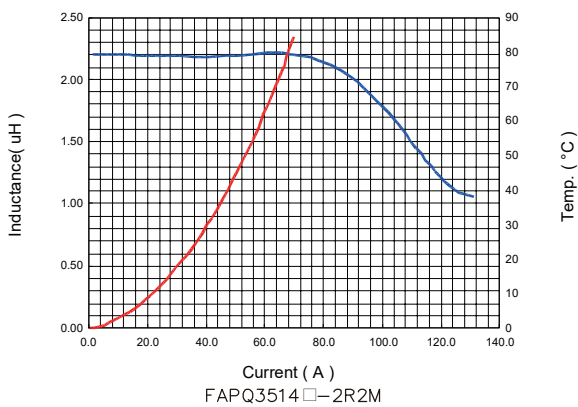
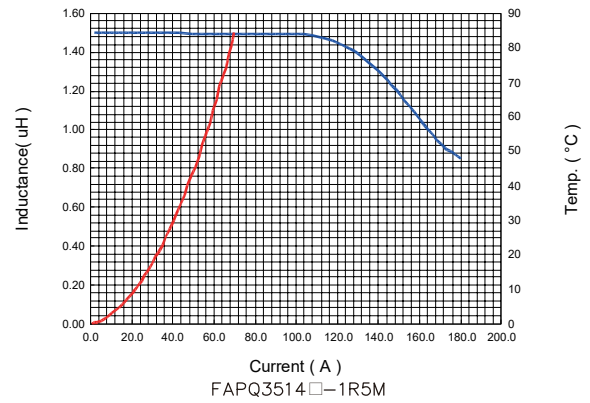
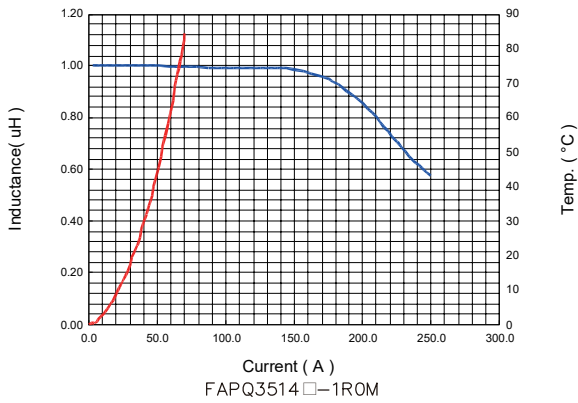


Front view

A	3522	22.5 Max
	3528	28.5 Max
B	36.0 Max	
C	27.0Max	
M	Ø5.20±0.20	

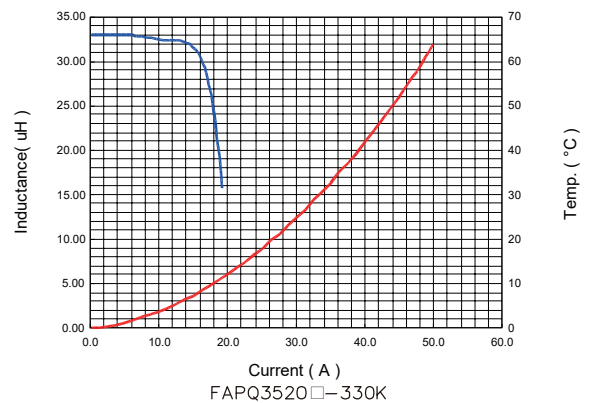
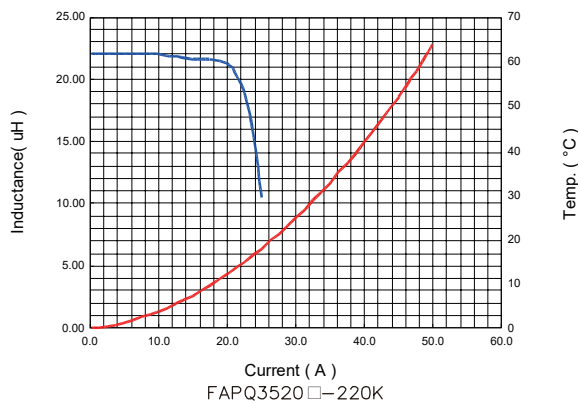
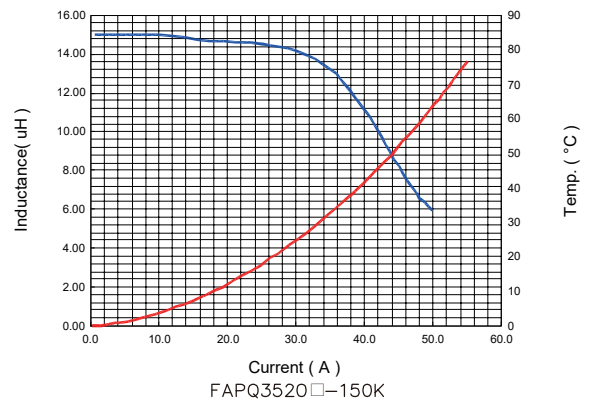
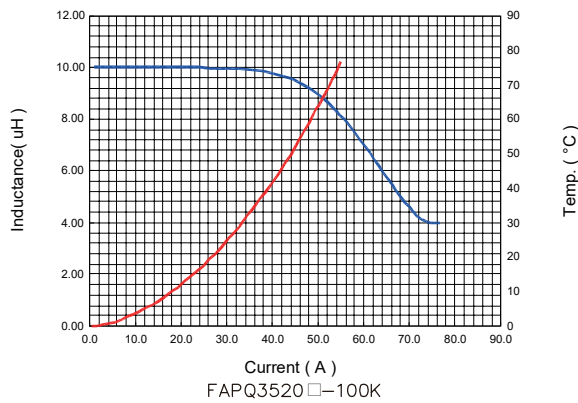
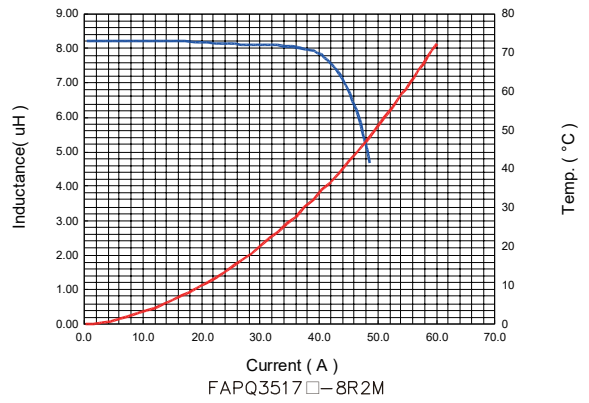
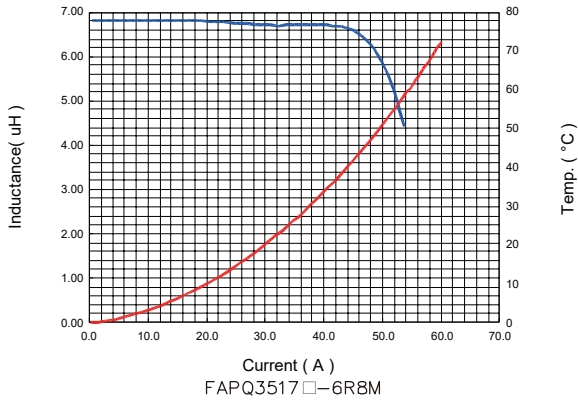
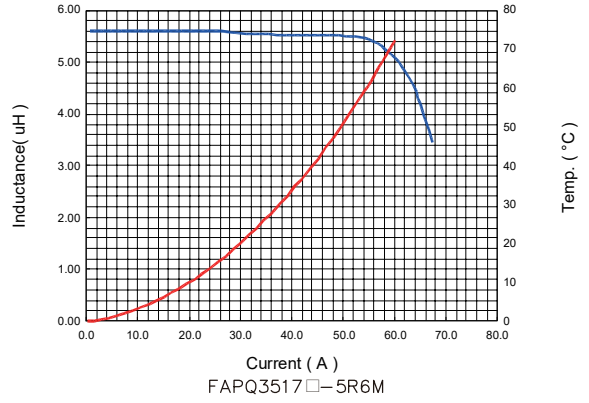
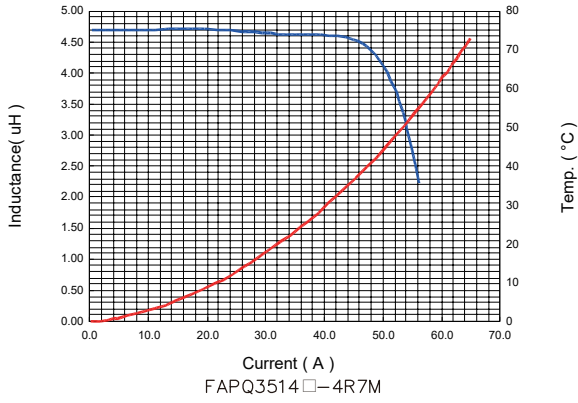
CURRENT VS TEMPERATURE RISE

(Temperature rise current is 30 minutes)



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(Temperature rise current is 30 minutes)



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(Temperature rise current is 30 minutes)

