



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# HIGH CURRENT SHIELDED SMD POWER INDUCTOR AIG



## ASPIAIG-F SERIES

Dimensions vary  
MSL = 1



### SERIES DESCRIPTION

The ASPIAIG-F series of molded smd power inductors come in a variety of package sizes. The series supports current handling up to 36A and DCR of only 1.75mΩ. This series is perfect for DC/DC converters in distributed power systems, DC/DC converters for FPGAs, voltage regulator module for servers, and high current, low profile POL converters.

### FEATURES

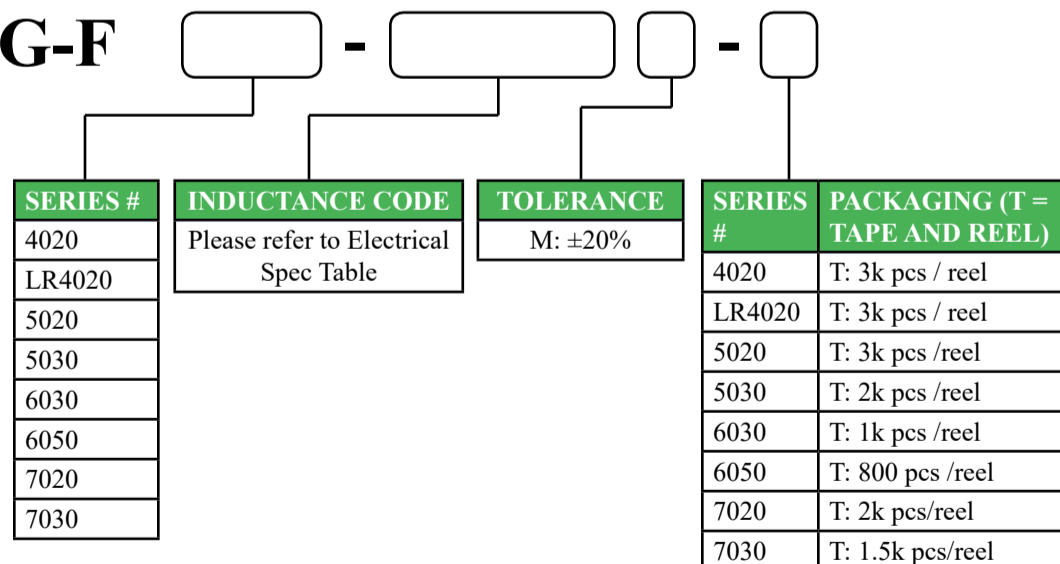
- PPAP ready and supported
- TS16949 production certified lines
- AEC-Q200 qualified
- Excellent current handling – up to 36A
- Exceptionally low DCR – only 1.75 mΩ
- Soft saturation
- Low profile for compact design
- Shielded construction reduces EMI

### APPLICATIONS

- Automotive grade 1 and electric vehicles
- ADAS and body electronics
- Infotainment systems
- Lighting
- Motor control
- Solar inverters and solar power
- DC/DC converters in distributed power systems
- DC/DC converters for FPGA (Field Programmable Gate Array)
- Battery powered device
- Thin type on-board power supply module for exchangers
- VRM (Voltage Regulator Module) for server
- High current, low profile POL (Point of Load) converters
- Graphics card (Buck converters)

### OPTIONS AND PART IDENTIFICATION

## ASPIAIG-F



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### ELECTRICAL SPECIFICATIONS

OPERATING TEMPERATURE	STORAGE CONDITION
-40°C - 125°C (including self-temperature rise)	-10°C - +40°C and R.H. 60%max

PART NUMBER	INDUCTANCE	TOLERANCE	DC RESISTANCE	SATURATION CURRENT	TEMPERATURE RISE CURRENT
	0.1MHz/0.1V		MAX	MAX	MAX
UNITS	μH	%	mΩ	A	A
SYMBOL	L	M	DCR	I <sub>sat</sub>	I <sub>rms</sub>
ASPIAIG-F4020-R10	0.10	20%	2.42	33.0	18.0
ASPIAIG-F4020-R22	0.22	20%	4.60	18.8	16.8
ASPIAIG-F4020-R36	0.36	20%	6.30	15.0	14.5
ASPIAIG-F4020-R40	0.40	20%	7.73	13.5	14.0
ASPIAIG-F4020-R56	0.56	20%	9.30	12.6	12.0
ASPIAIG-F4020-R60	0.60	20%	9.52	12.3	11.7
ASPIAIG-F4020-R72	0.72	20%	11.60	10.6	10.5
ASPIAIG-F4020-1R0	1.00	20%	14.60	8.8	9.6
ASPIAIG-F4020-1R2	1.20	20%	17.90	7.8	9.0
ASPIAIG-F4020-1R5	1.50	20%	23.50	7.4	7.6
ASPIAIG-F4020-1R8	1.80	20%	28.00	7.0	7.0
ASPIAIG-F4020-2R2	2.20	20%	38.70	6.0	5.6
ASPIAIG-FLR4020-R47	0.47	20%	6.8	12.5	13.2
ASPIAIG-FLR4020-R68	0.68	20%	8.2	10.0	12.0
ASPIAIG-FLR4020-R82	0.82	20%	9.5	9.0	11.5
ASPIAIG-FLR4020-1R0	1.00	20%	11.7	8.0	11.0
ASPIAIG-FLR4020-1R2	1.20	20%	13.4	7.5	9.5
ASPIAIG-FLR4020-1R5	1.50	20%	15.8	6.7	9.1
ASPIAIG-FLR4020-2R0	2.00	20%	23.3	5.0	8.2
ASPIAIG-FLR4020-2R2	2.20	20%	23.5	4.8	8.0
ASPIAIG-FLR4020-3R3	3.30	20%	38.3	4.4	5.5
ASPIAIG-FLR4020-4R7	4.70	20%	57.2	3.5	5.1
ASPIAIG-F5020-R15	0.15	20%	4.60	27.0	18.8
ASPIAIG-F5020-R16	0.16	20%	4.60	27.0	18.8
ASPIAIG-F5020-R33	0.33	20%	7.00	24.0	14.4
ASPIAIG-F5020-R47	0.47	20%	8.05	20.0	14.1
ASPIAIG-F5020-R56	0.56	20%	9.54	16.0	13.9
ASPIAIG-F5020-R68	0.68	20%	10.2	14.0	13.4
ASPIAIG-F5020-R80	0.80	20%	11.8	13.5	13.0
ASPIAIG-F5020-R82	0.82	20%	12.7	13.0	12.0
ASPIAIG-F5020-1R0	1.00	20%	13.8	12.8	10.5
ASPIAIG-F5020-1R2	1.20	20%	16.3	12.2	9.40
ASPIAIG-F5020-1R5	1.50	20%	18.7	11.7	8.80

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### ELECTRICAL SPECIFICATIONS

PART NUMBER	INDUCTANCE	TOLERANCE	DC RESISTANCE	SATURATION CURRENT	TEMPERATURE RISE CURRENT
	0.1MHz/0.1V		MAX	MAX	MAX
UNITS	μH	%	mΩ	A	A
SYMBOL	L	M	DCR	Isat	Irms
ASPIAIG-F5030-R15	0.15	20%	2.31	32.5	22.2
ASPIAIG-F5030-R16	0.16	20%	2.33	32.0	22.2
ASPIAIG-F5030-R33	0.33	20%	3.52	26.0	19.2
ASPIAIG-F5030-R56	0.56	20%	4.52	20.2	17.7
ASPIAIG-F5030-R60	0.60	20%	4.52	20.0	17.7
ASPIAIG-F5030-R80	0.80	20%	5.65	18.0	13.1
ASPIAIG-F5030-R82	0.82	20%	5.78	17.6	12.9
ASPIAIG-F5030-1R0	1.00	20%	7.60	14.3	12.2
ASPIAIG-F5030-1R2	1.20	20%	9.70	13.5	11.0
ASPIAIG-F5030-1R5	1.50	20%	11.2	12.5	10.5
ASPIAIG-F5030-1R8	1.80	20%	12.7	11.3	10.1
ASPIAIG-F5030-2R2	2.20	20%	14.5	9.0	9.70
ASPIAIG-F5030-3R3	3.30	20%	23.1	8.7	8.10
ASPIAIG-F5030-4R7	4.70	20%	36.3	7.0	5.90
ASPIAIG-F6050-1R0	1.00	20%	4.52	18.0	20.0
ASPIAIG-F6050-1R2	1.20	20%	5.83	16.0	18.0
ASPIAIG-F6050-1R5	1.50	20%	6.3	14.5	17.0
ASPIAIG-F6050-1R8	1.80	20%	7.1	13.5	16.0
ASPIAIG-F6050-2R2	2.20	20%	8.5	12.0	13.0
ASPIAIG-F6050-3R3	3.30	20%	12.5	10.0	11.0
ASPIAIG-F6050-4R3	4.30	20%	16.2	8.5	9.0
ASPIAIG-F6050-4R7	4.70	20%	18.4	8.0	8.5

PART NUMBER	INDUCTANCE	TOLERANCE	SELF-RESONANT FREQUENCY	DC RESISTANCE	SATURATION CURRENT	TEMPERATURE RISE CURRENT
	0.1MHz/0.1V		REF	MAX	MAX	MAX
UNITS	μH	%	MHz	mΩ	A	A
SYMBOL	L	M	SRF	DCR	Isat	Irms
ASPIAIG-F6030-R18	0.18	20%	143	1.75	36.0	32.0
ASPIAIG-F6030-R33	0.33	20%	78	2.50	28.0	25.0
ASPIAIG-F6030-R56	0.56	20%	70	3.31	25.0	22.0
ASPIAIG-F6030-1R0	1.00	20%	52	6.05	18.0	18.0
ASPIAIG-F6030-1R2	1.20	20%	47	7.40	16.0	16.0
ASPIAIG-F6030-1R8	1.80	20%	33	10.2	13.0	14.0
ASPIAIG-F6030-2R2	2.20	20%	29	12.2	11.0	10.0
ASPIAIG-F6030-3R3	3.30	20%	25	20.8	9.00	8.00
ASPIAIG-F6030-4R5	4.50	20%	20	25.3	8.00	7.00

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## ASPIAIG-F SERIES

Dimensions vary  
MSL = 1

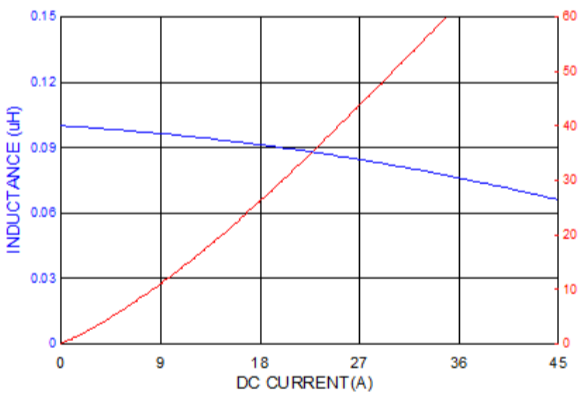


### ELECTRICAL SPECIFICATIONS

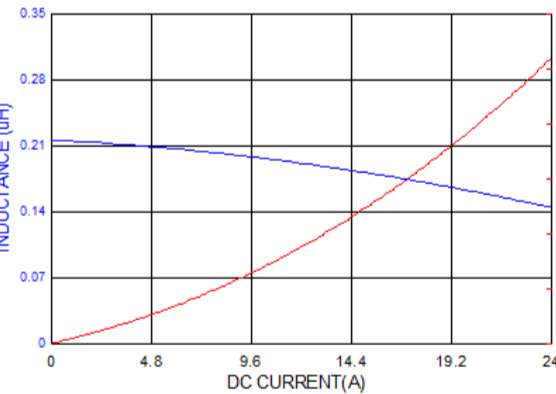
PART NUMBER	INDUCTANCE	TOLERANCE	DC RESISTANCE	SATURATION CURRENT	TEMPERATURE RISE CURRENT	D
	0.1MHz/0.1V		MAX	MAX	MAX	
UNITS	μH	%	mΩ	A	A	mm
SYMBOL	L	M	DCR	Isat	Irms	
ASPIAIG-F7020-R27	0.27	20%	3.5	32.0	21.0	6.6
ASPIAIG-F7020-R31	0.31	20%	4.8	31.0	20.0	6.2
ASPIAIG-F7020-R33	0.33	20%	4.8	31.0	19.0	6.2
ASPIAIG-F7020-R47	0.47	20%	6.2	25.0	17.0	6.2
ASPIAIG-F7020-R68	0.68	20%	9.2	23.0	13.0	6.2
ASPIAIG-F7020-1R0	1.00	20%	10.8	20.0	11.0	6.2
ASPIAIG-F7030-R60	0.60	20%	3.2	32.0	23.0	6.6
ASPIAIG-F7030-1R0	1.00	20%	5.0	28.0	21.8	6.6
ASPIAIG-F7030-1R5	1.50	20%	8.25	23.5	15.3	6.6
ASPIAIG-F7030-2R2	2.20	20%	13.7	17.0	13.0	6.2
ASPIAIG-F7030-3R3	3.30	20%	18.0	13.0	10.0	6.2
ASPIAIG-F7030-4R7	4.70	20%	26.7	12.2	9.0	6.2
ASPIAIG-F7030-5R6	5.60	20%	33.2	11.5	7.3	6.2
ASPIAIG-F7030-6R8	6.80	20%	42.5	11.0	6.8	6.2
ASPIAIG-F7030-8R2	8.20	20%	48.73	9.0	5.9	6.2

### ELECTRICAL CHARACTERISTICS

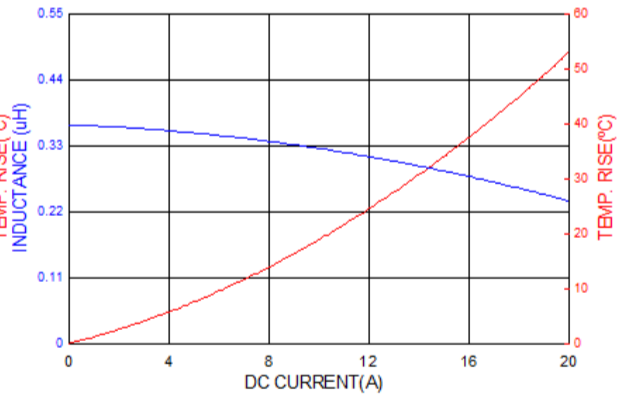
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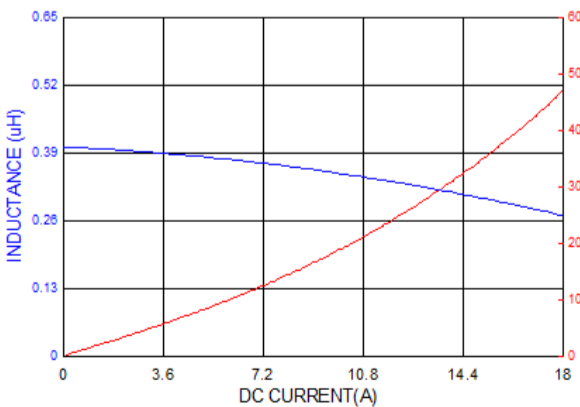
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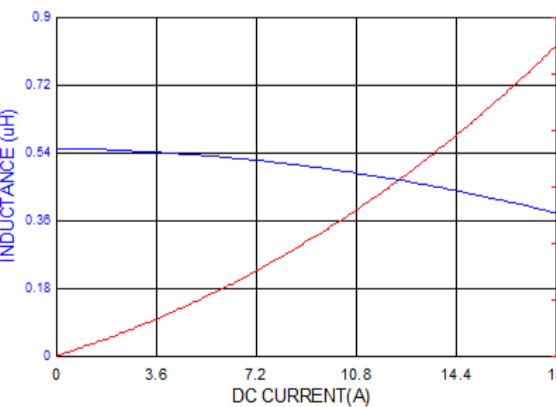
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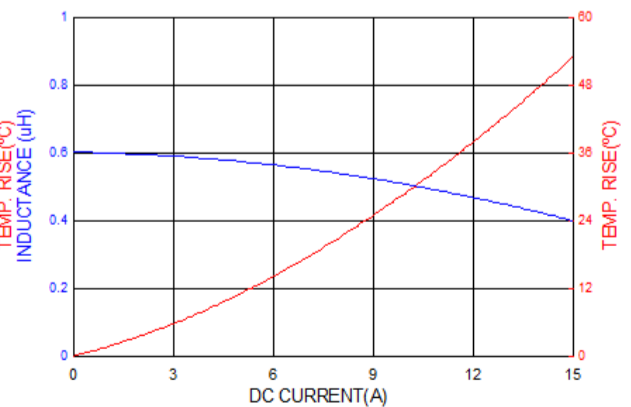
ASPIAIG-F4020-R40



ASPIAIG-F4020-R56



ASPIAIG-F4020-R60



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## ASPIAIG-F SERIES

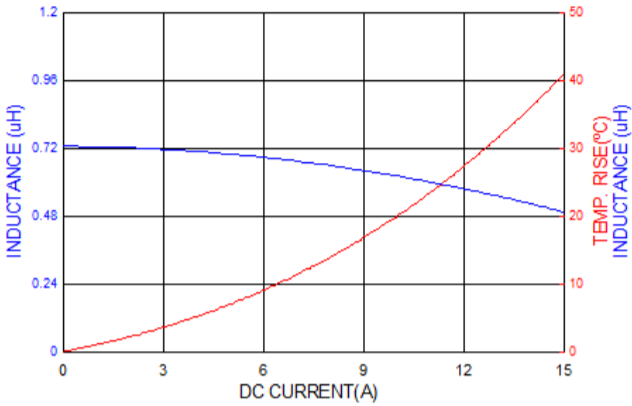
Dimensions vary

MSL = 1

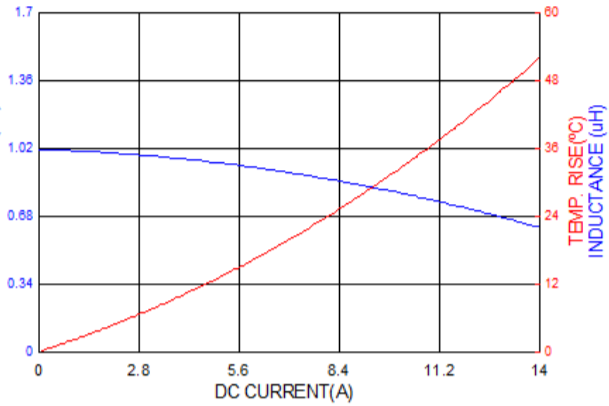


### ELECTRICAL SPECIFICATIONS

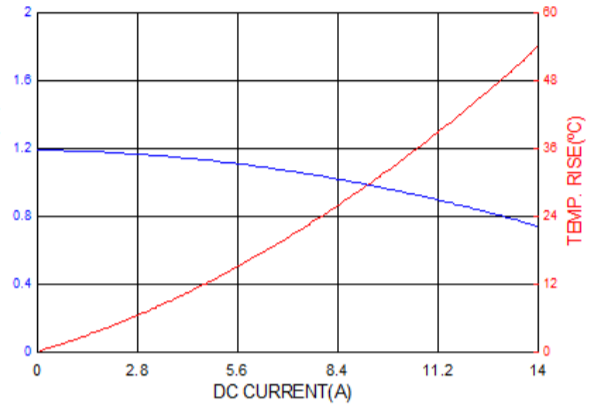
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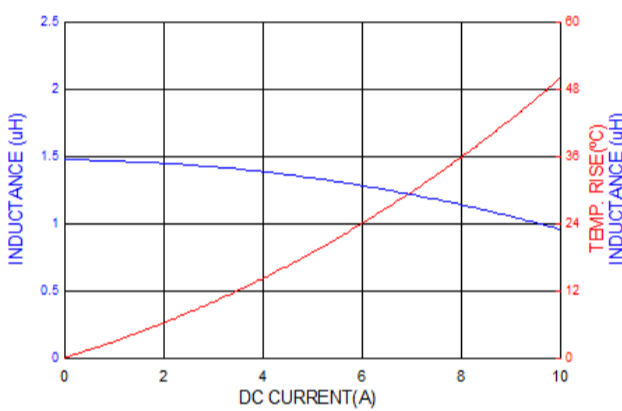
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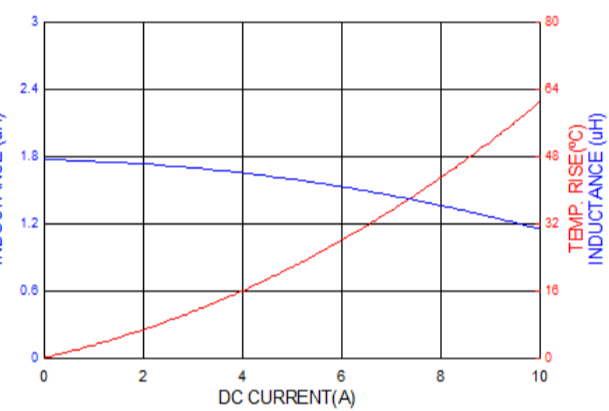
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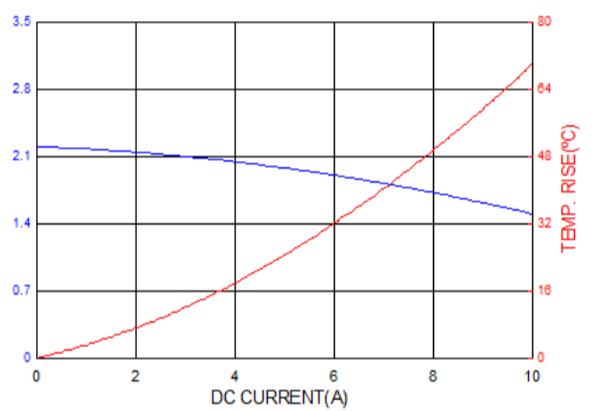
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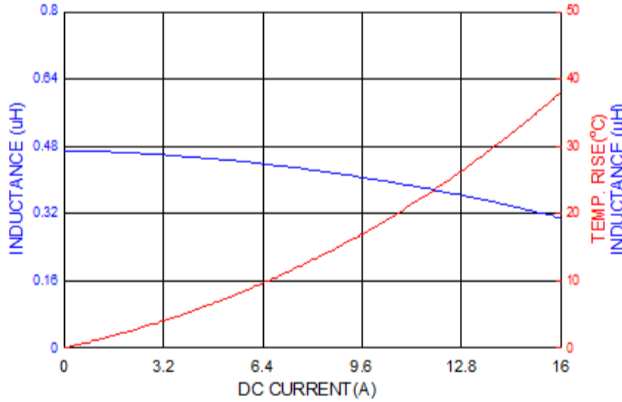
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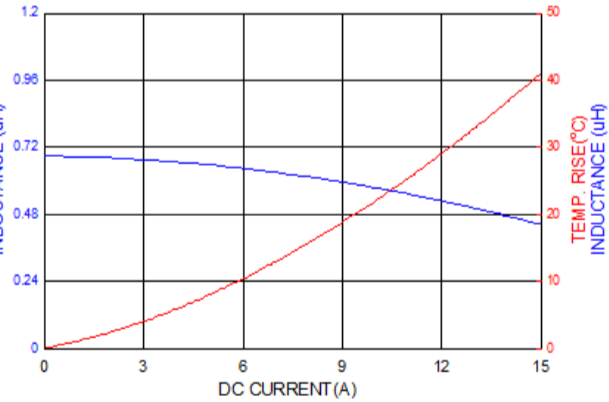
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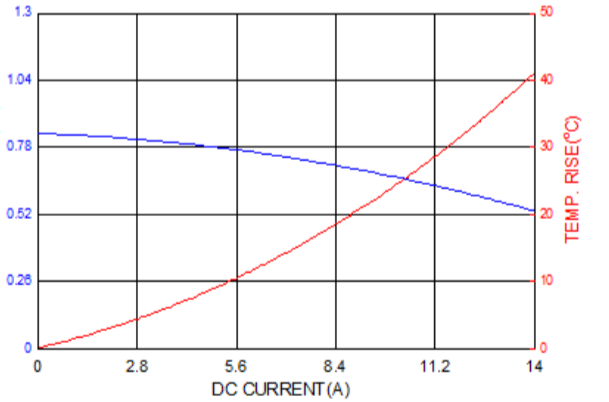
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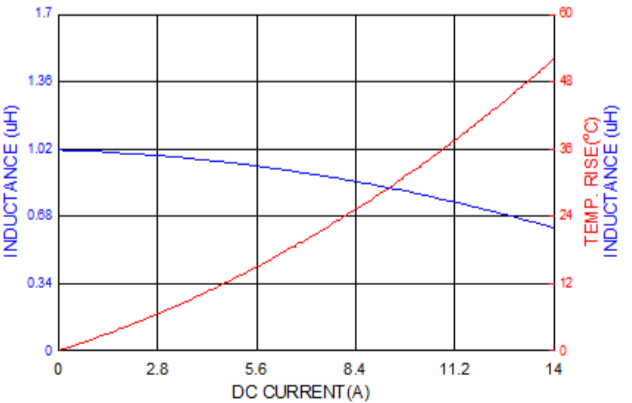
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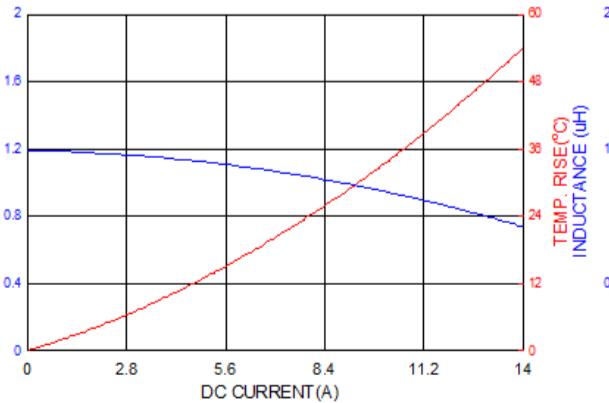
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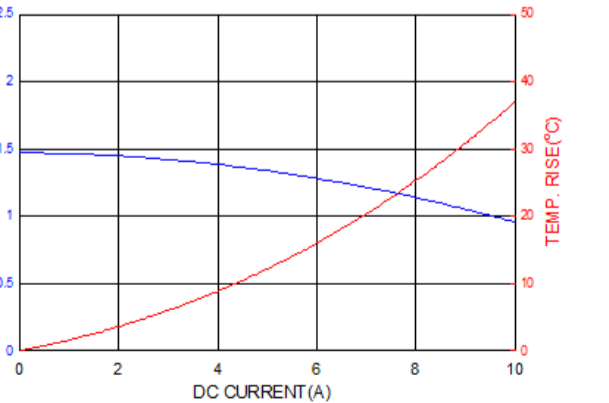
**ASPIAIG-FLR4020-1R0**



**ASPIAIG-FLR4020-1R2**



**ASPIAIG-FLR4020-1R5**



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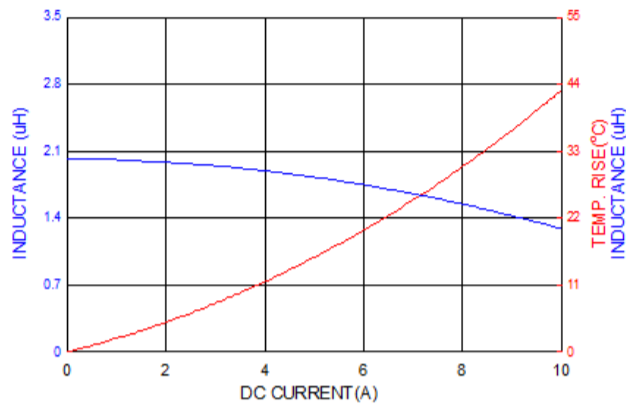
## ASPIAIG-F SERIES

Dimensions vary  
MSL = 1

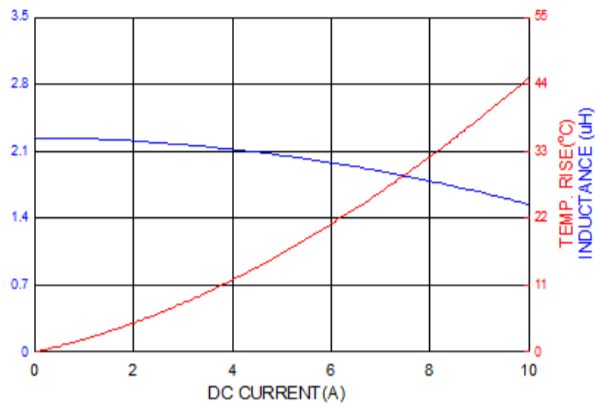


### ELECTRICAL CHARACTERISTICS

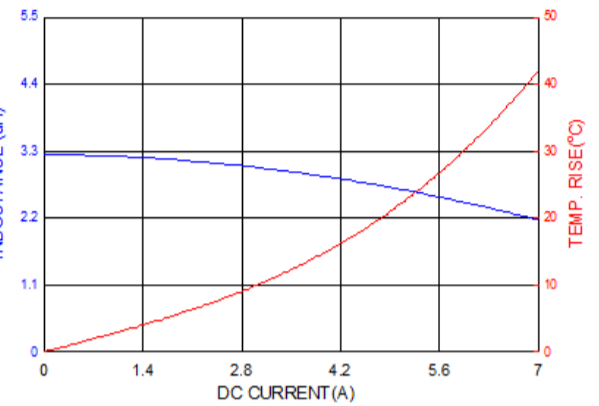
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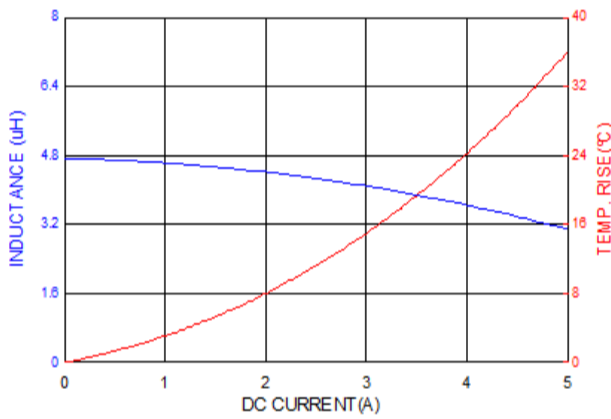
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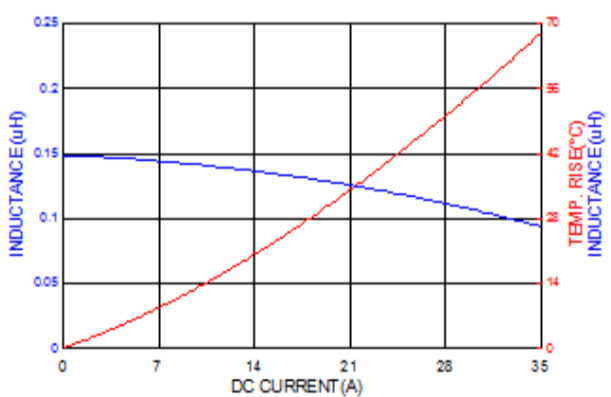
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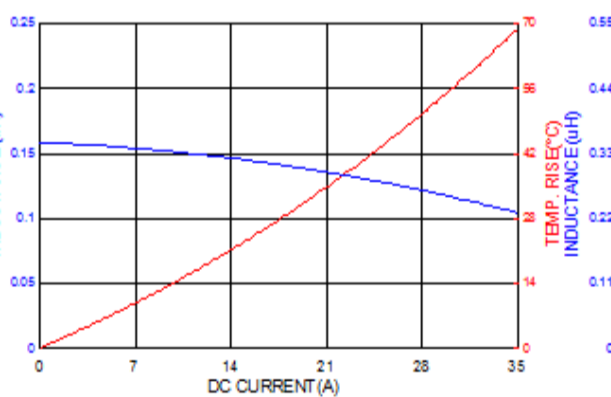
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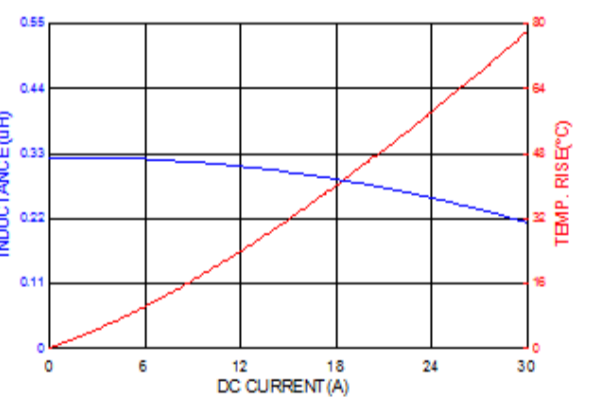
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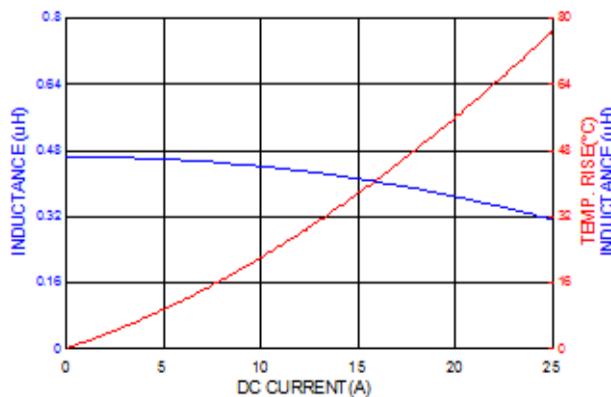
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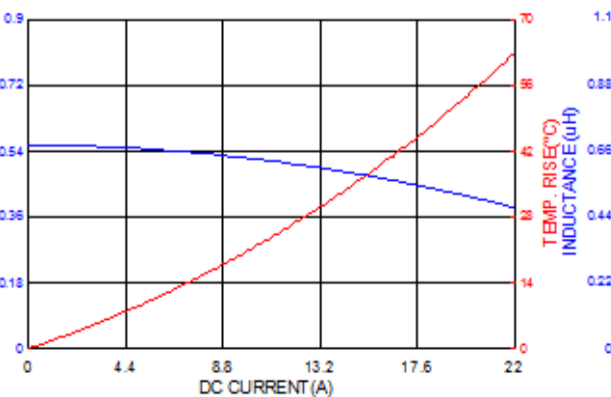
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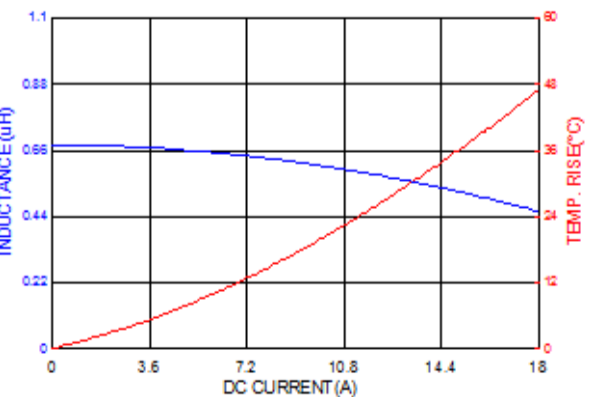
ASPIAIG-F5020-R47



ASPIAIG-F5020-R47



ASPIAIG-F5020-R68



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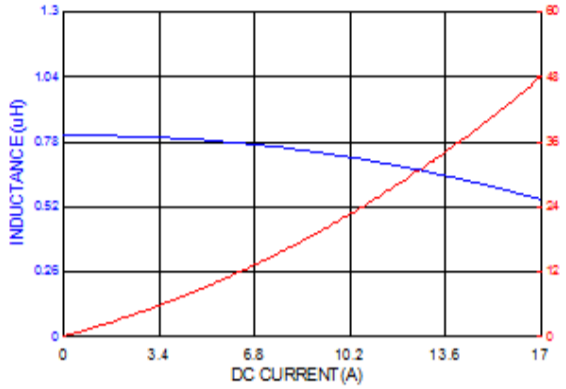
## ASPIAIG-F SERIES

Dimensions vary  
MSL = 1

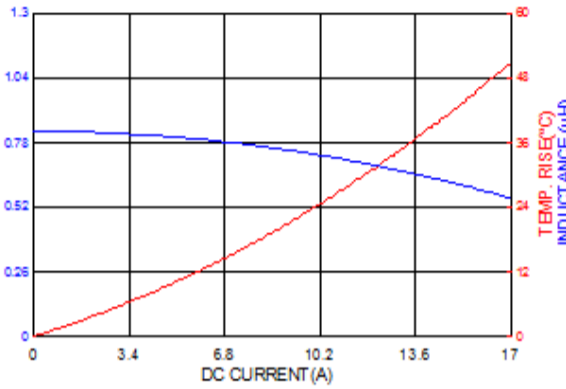


### ELECTRICAL CHARACTERISTICS

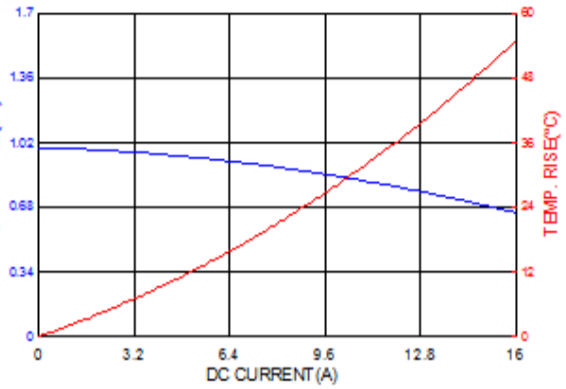
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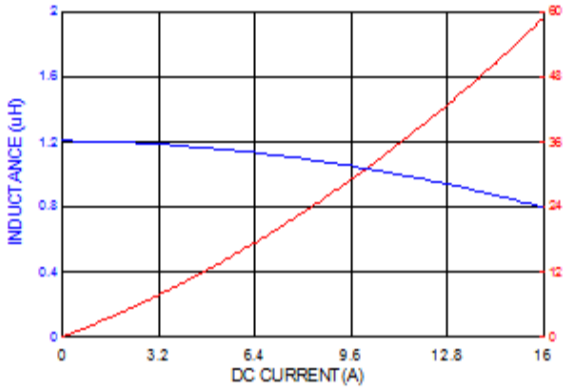
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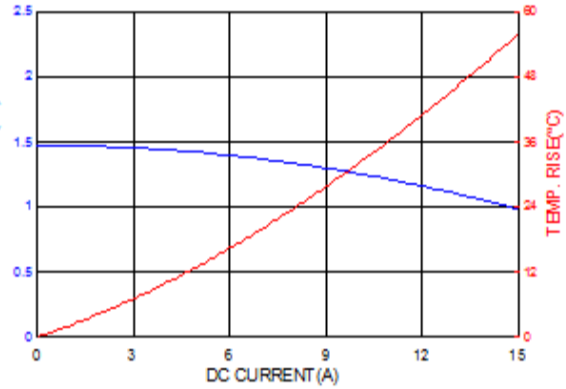
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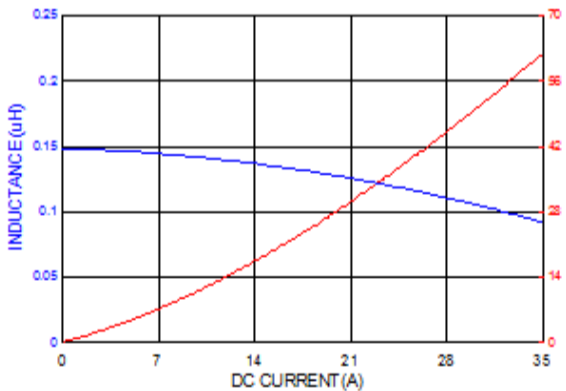
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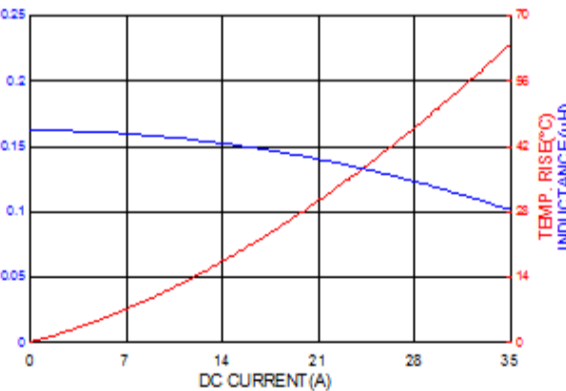
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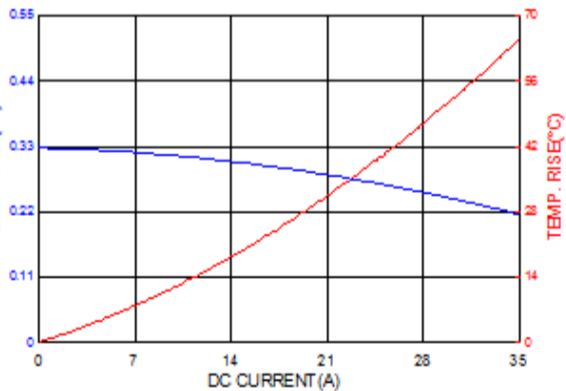
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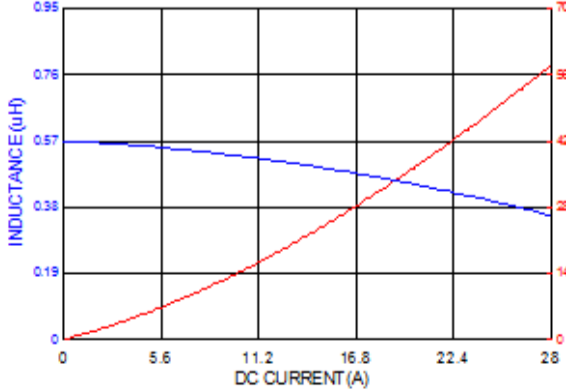
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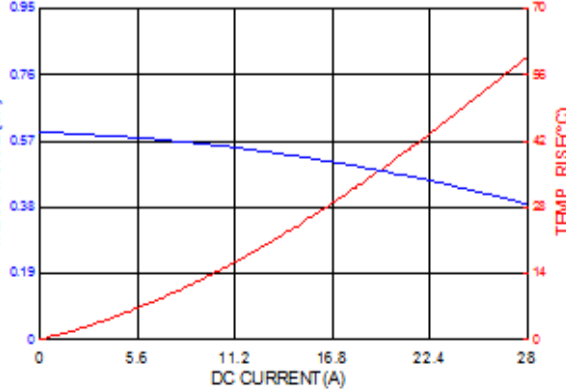
ASPIAIG-F5030-R33



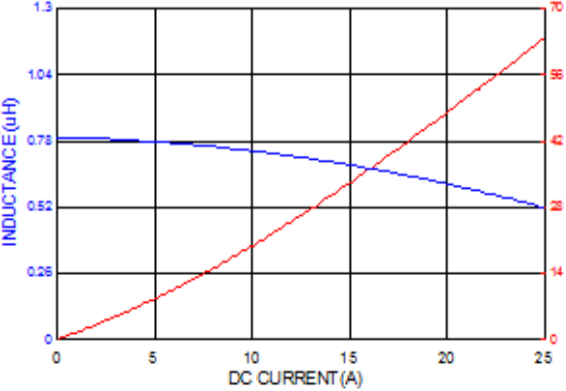
ASPIAIG-F5030-R56



ASPIAIG-F5030-R60



ASPIAIG-F5030-R80



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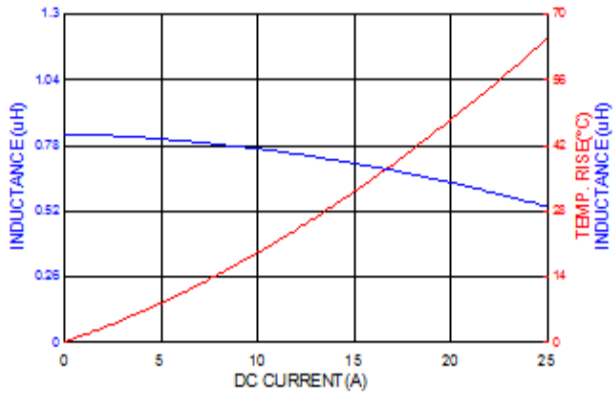
## ASPIAIG-F SERIES

Dimensions vary  
MSL = 1

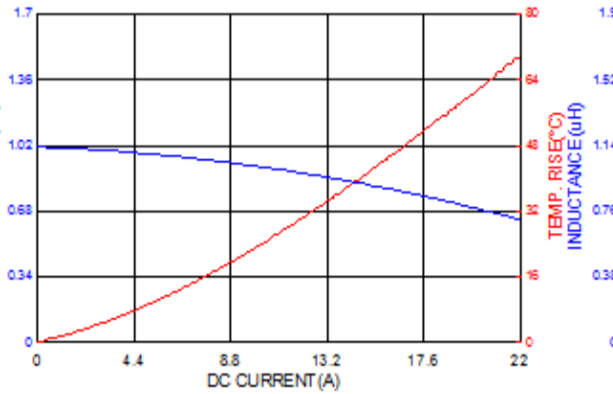


### ELECTRICAL CHARACTERISTICS

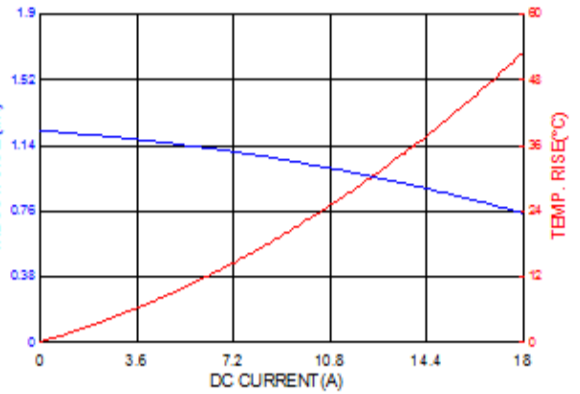
ASPIAIG-F5030-R82



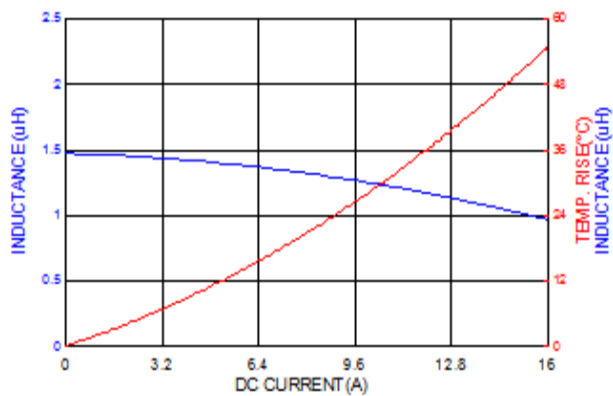
ASPIAIG-F5030-1R0



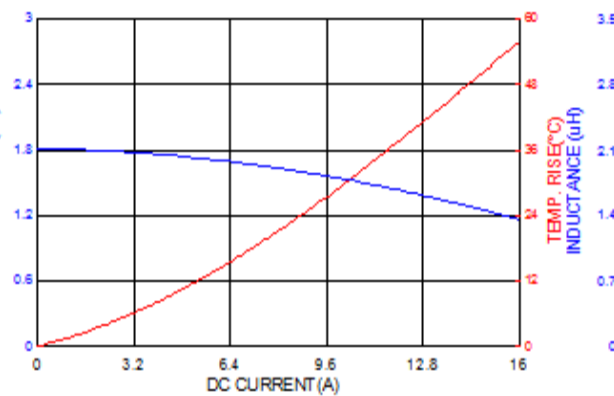
ASPIAIG-F5030-1R2



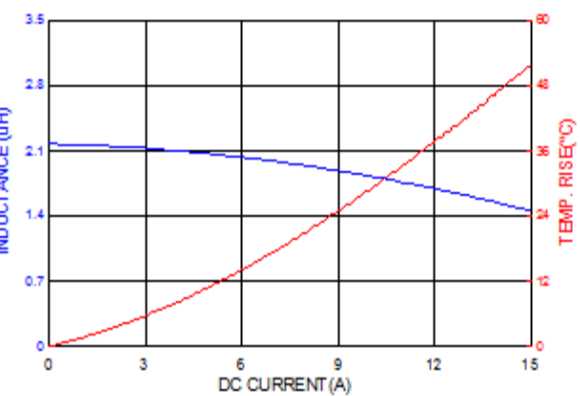
ASPIAIG-F5030-1R5



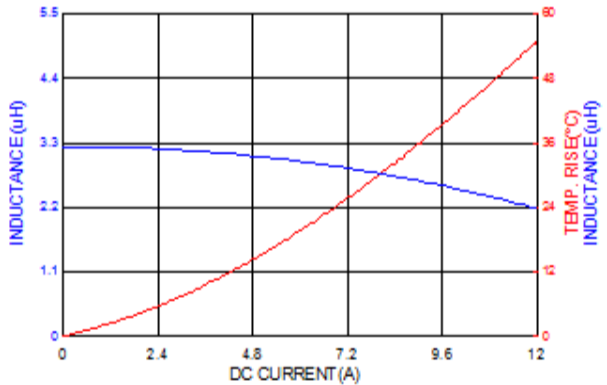
ASPIAIG-F5030-1R8



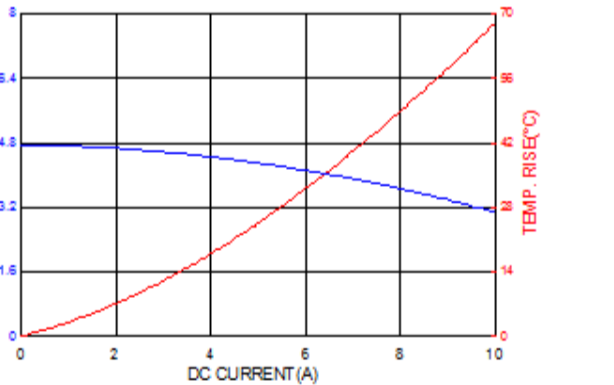
ASPI-AIGF5030-2R2



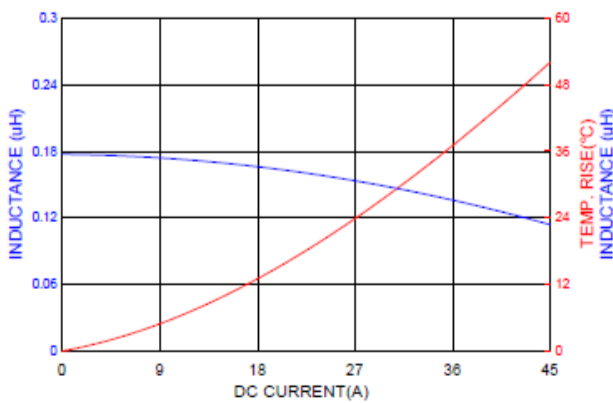
ASPIAIG-F5030-3R3



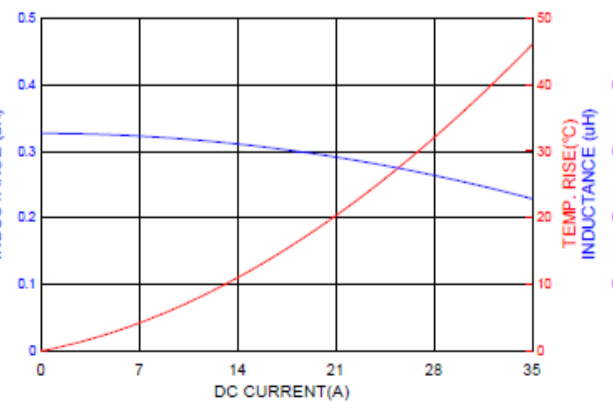
ASPIAIG-F5030-4R7



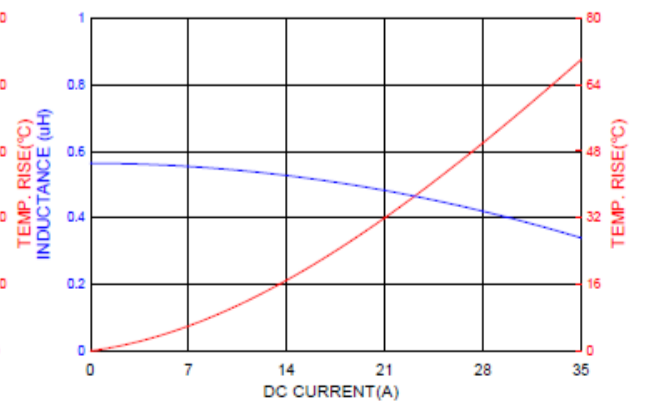
ASPIAIG-F6030-R18



ASPIAIG-F6030-R33



ASPIAIG-F6030-R56



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# HIGH CURRENT SHIELDED SMD POWER INDUCTOR AIG



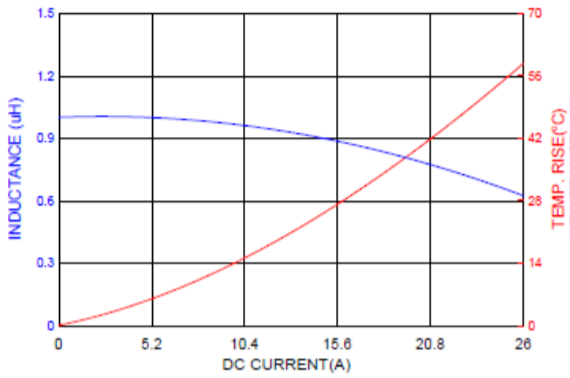
## ASPIAIG-F SERIES

Dimensions vary  
MSL = 1

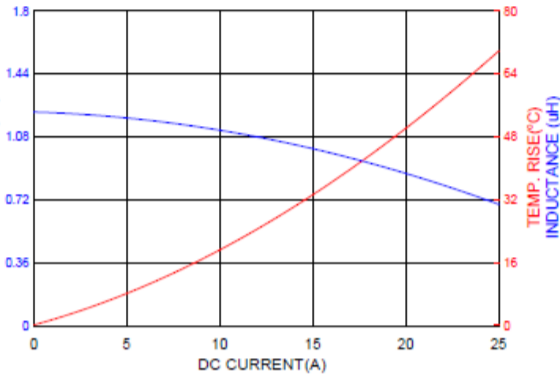


### ELECTRICAL CHARACTERISTICS

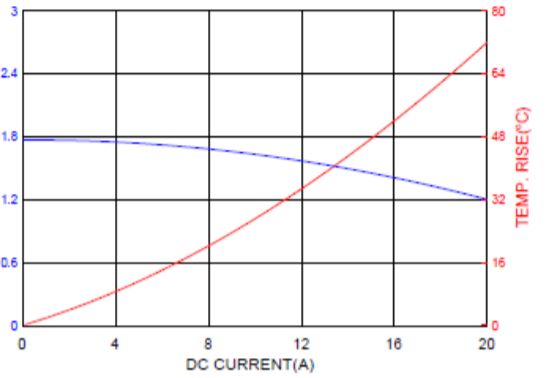
ASPIAIG-F6030-1R0



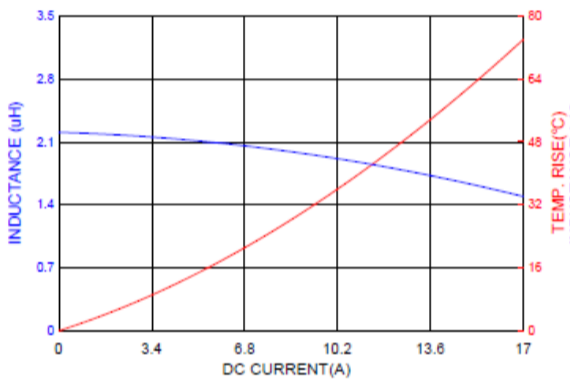
ASPIAIG-F6030-1R2



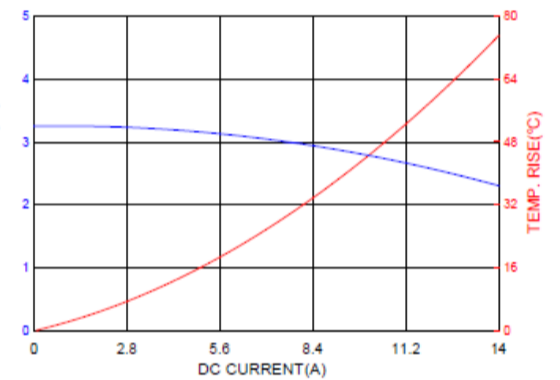
ASPIAIG-F6030-1R8



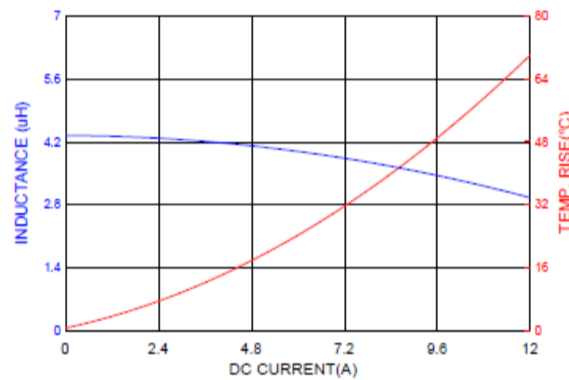
ASPIAIG-F6030-2R2



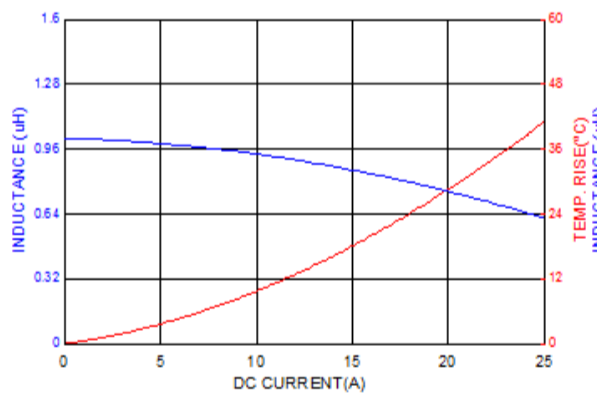
ASPIAIG-F6030-3R3



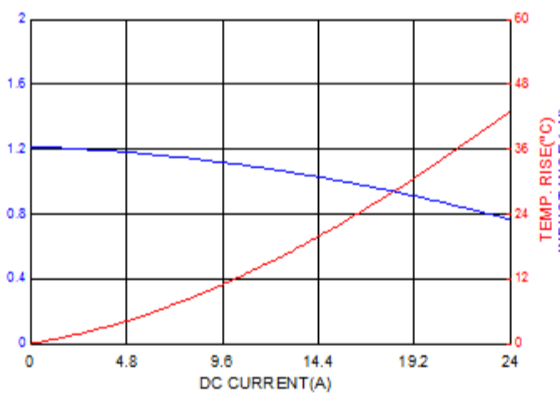
ASPIAIG-F6030-4R5



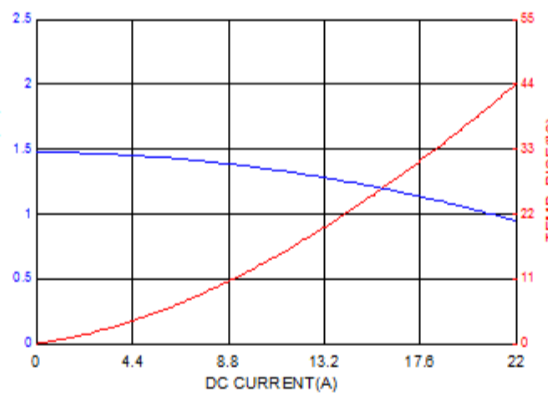
ASPIAIG-F6050-1R0



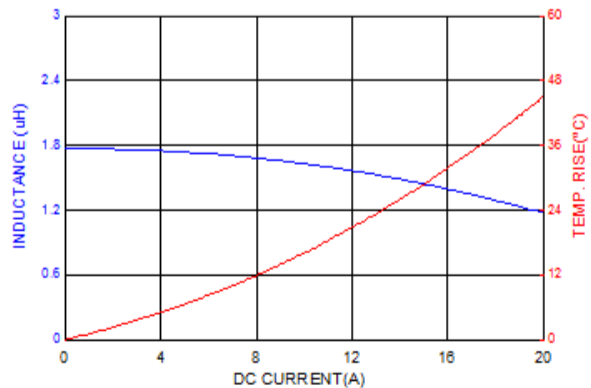
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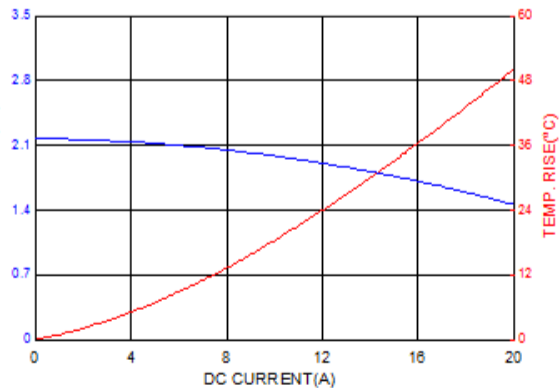
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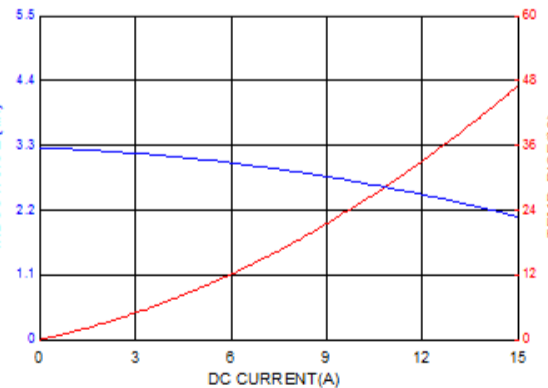
ASPIAIG-F6050-1R8



ASPIAIG-F6050-2R2



ASPIAIG-F6050-3R3



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## ASPIAIG-F SERIES

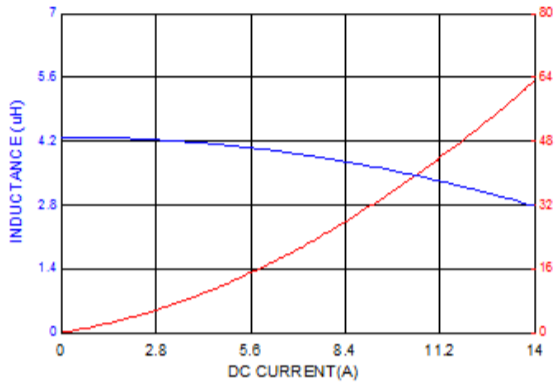
Dimensions vary

MSL = 1

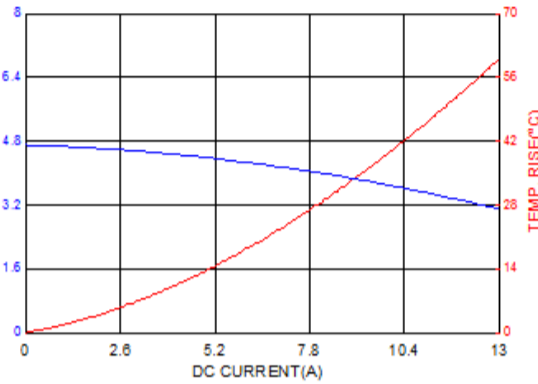


### ELECTRICAL CHARACTERISTICS

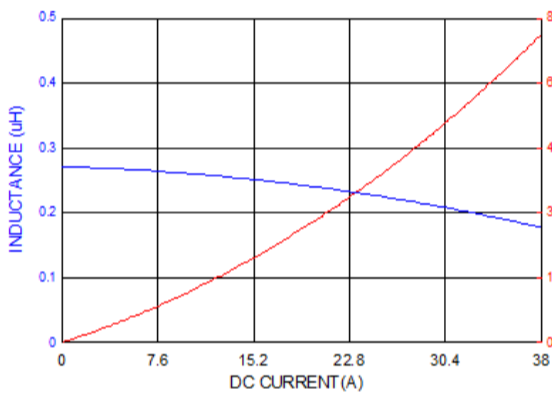
**ASPIAIG-F6050-4R3**



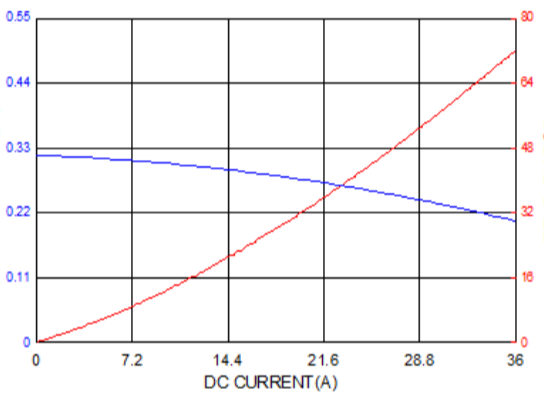
**ASPIAIG-F6050-4R7**



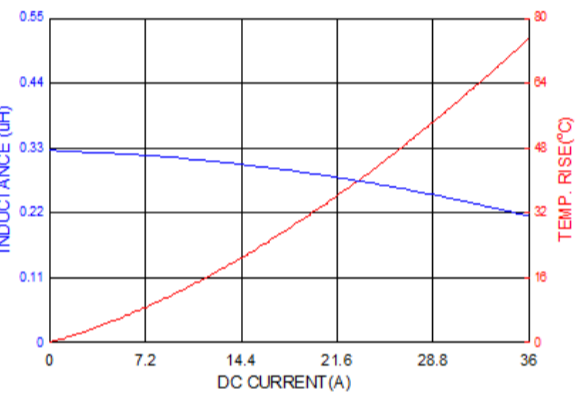
**ASPIAIG-F7020-R27**



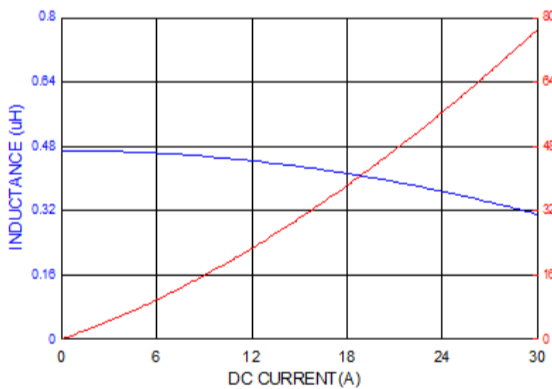
**ASPIAIG-F7020-R31**



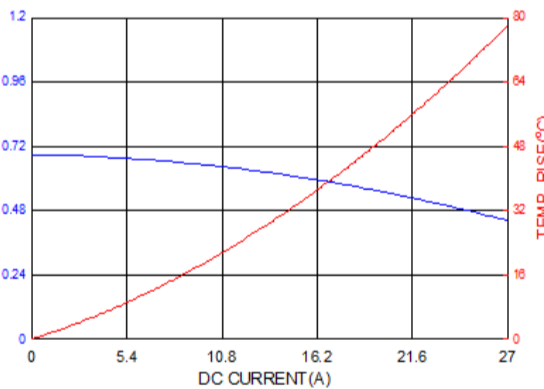
**ASPIAIG-F7020-R33**



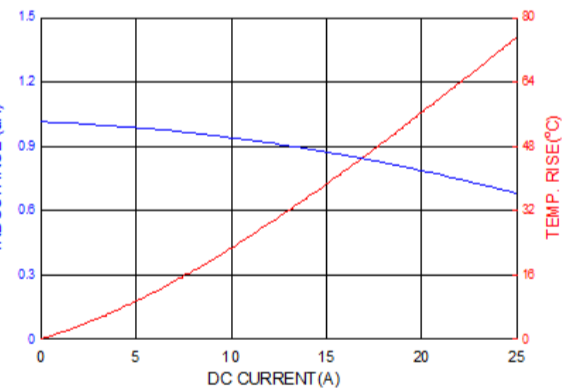
**ASPIAIG-F7020-R47**



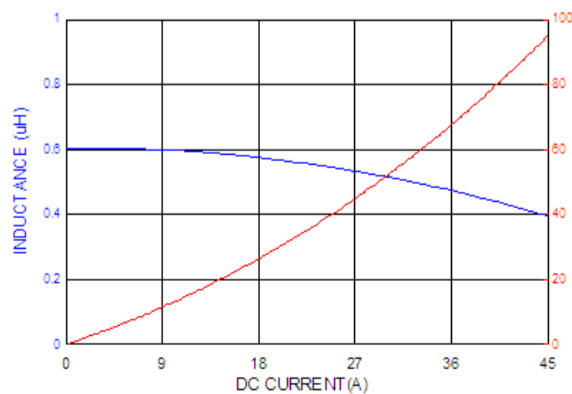
**ASPIAIG-F7020-R68**



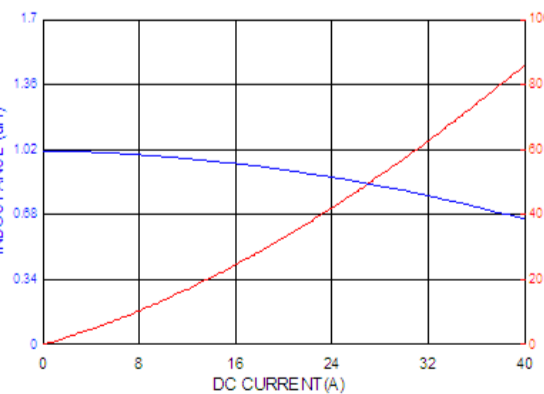
**ASPIAIG-F7020-1R0**



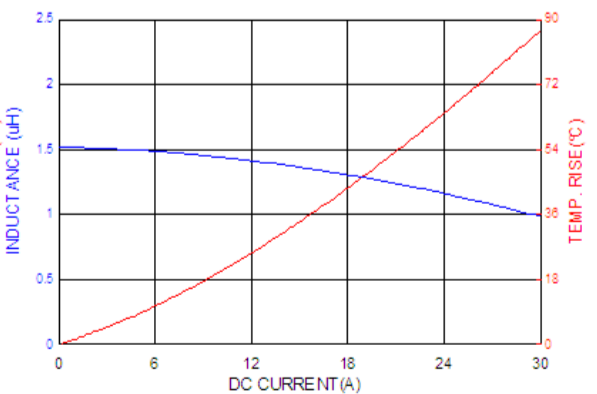
**ASPIAIG-F7030-R60**



**ASPIAIG-F7030-1R0**



**ASPIAIG-F7030-1R5**



# HIGH CURRENT SHIELDED SMD POWER INDUCTOR AIG

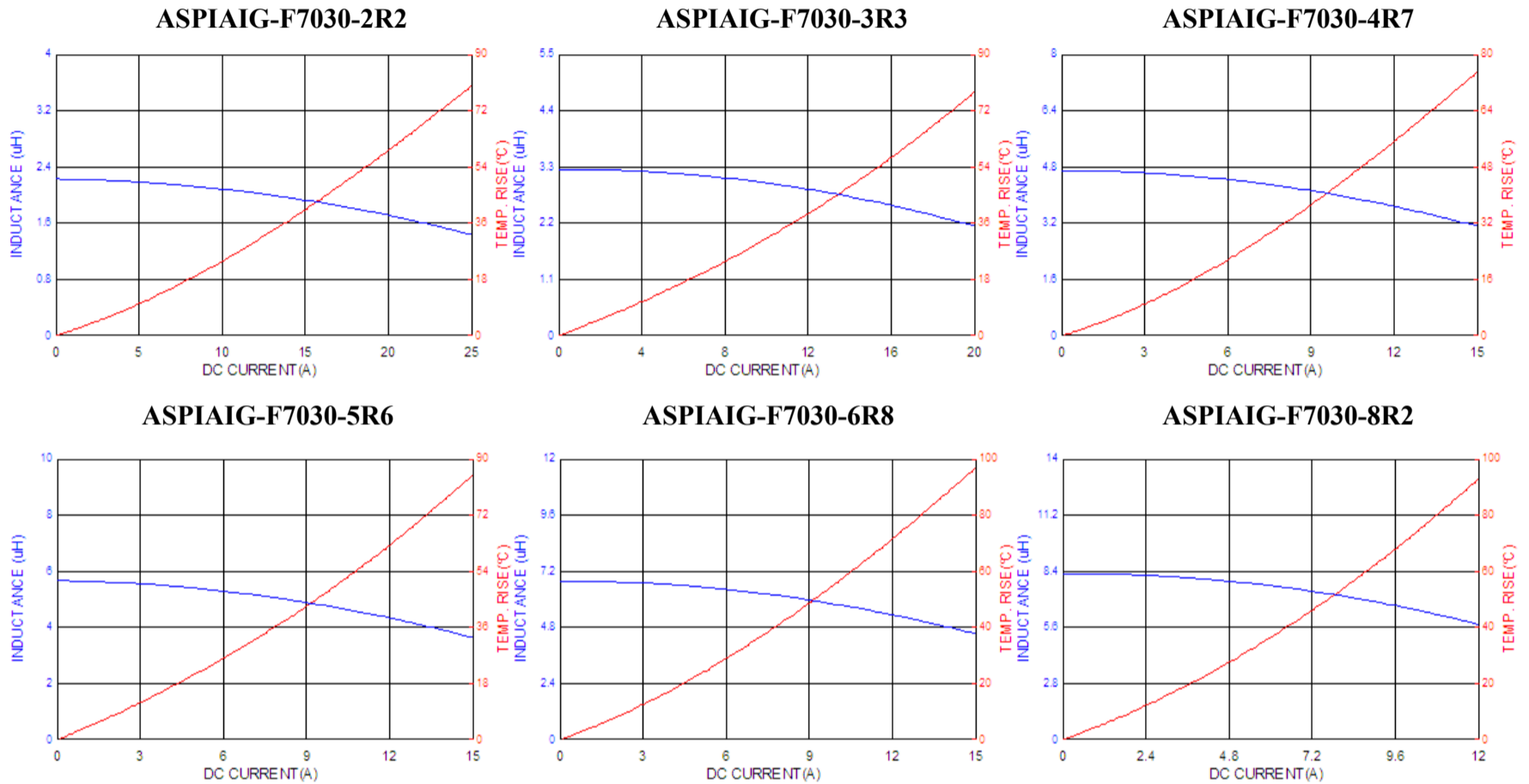


## ASPIAIG-F SERIES

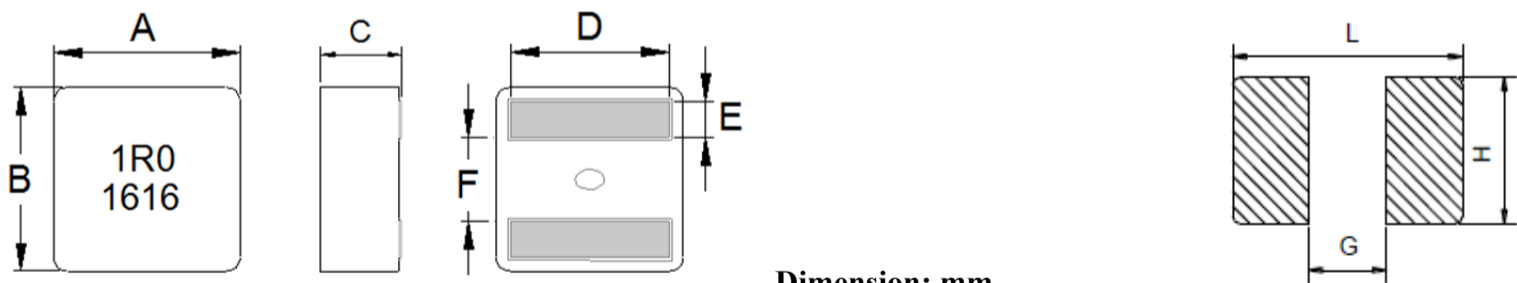
Dimensions vary  
MSL = 1



### ELECTRICAL SPECIFICATIONS



### MECHANICAL DIMENSIONS



Dimension: mm

SERIES	A	B	C	D	E	F
ASPIAIG-F4020	4.1 ± 0.2	4.1 ± 0.2	1.9 ± 0.2	3.4 ± 0.3	0.88 ± 0.2	1.6 ± 0.25
ASPIAIG-FLR4020	4.1 ± 0.2	4.1 ± 0.2	1.9 ± 0.2	3.4 ± 0.3	0.88 ± 0.2	1.6 ± 0.25
ASPIAIG-F5020	5.5 ± 0.2	5.3 ± 0.2	1.9 ± 0.2	4.3 ± 0.3	1.1 ± 0.2	2.3 ± 0.25
ASPIAIG-F5030	5.5 ± 0.2	5.3 ± 0.2	2.9 ± 0.2	4.3 ± 0.3	1.1 ± 0.2	2.3 ± 0.25
ASPIAIG-F6030	6.6 ± 0.2	6.4 ± 0.2	2.8 ± 0.2	5.3 ± 0.3	1.4 ± 0.2	2.6 ± 0.25
ASPIAIG-F6050	6.6 ± 0.2	6.4 ± 0.2	4.8 ± 0.2	5.3 ± 0.3	1.4 ± 0.2	2.6 ± 0.25
ASPIAIG-F7020	7.8 ± 0.25	7.6 ± 0.2	1.85 ± 0.2	SEE SPEC TABLE	1.75 ± 0.2	3.15 ± 0.25
ASPIAIG-F7030	7.8 ± 0.25	7.6 ± 0.2	2.90 ± 0.2	SEE SPEC TABLE	1.75 ± 0.2	3.15 ± 0.25

SERIES	L typ	G typ	H typ
ASPIAIG-F4020	3.4	1.4	3.8
ASPIAIG-FLR4020			
ASPIAIG-F5020	4.5	2.0	4.7
ASPIAIG-F5030			
ASPIAIG-F6030	5.6	2.5	5.6
ASPIAIG-F6050			
ASPIAIG-F7020	2.8	7.2	7.4
ASPIAIG-F7030			

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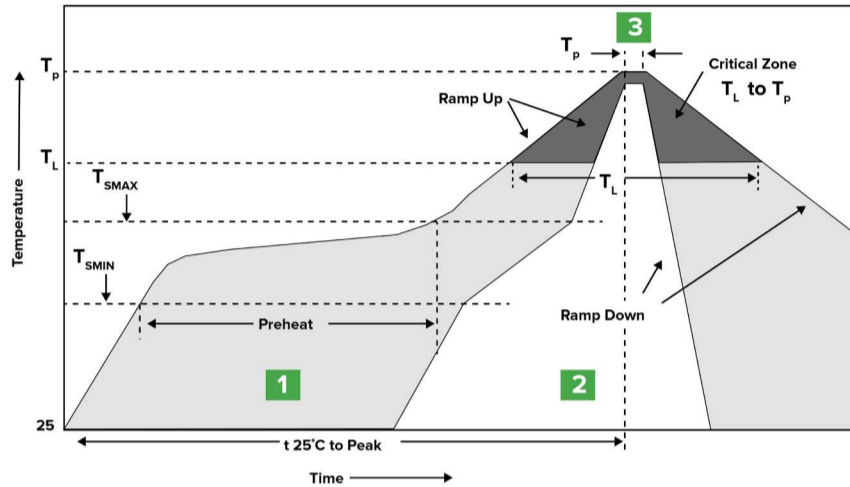


## ASPIAIG-F SERIES

Dimensions vary  
MSL = 1

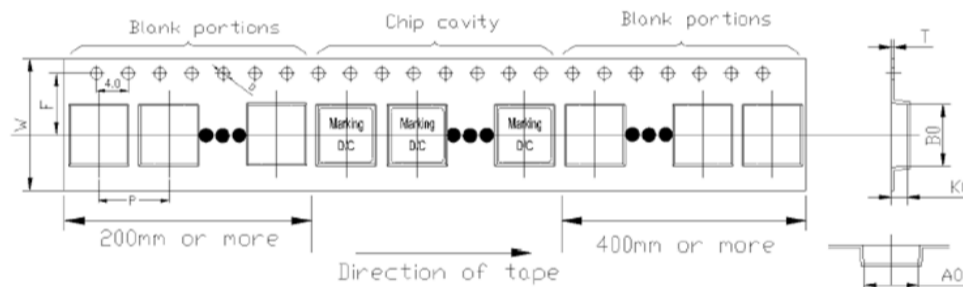
RoHS/RoHS II Compliant

### REFLOW

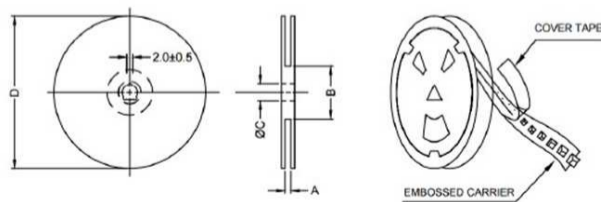


Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 180°C	120 ~ 180 sec.
2	Reflow	$T_L$ 217°C	60 ~ 150 sec.
3	Peak heat	$T_P$ 245°C	5 sec. MAX

### PACKING (TAPE & REEL)



SERIES	W	F	P	D	A0	B0	T	K0
ASPIAIG-F4020	12.0±0.3	5.5±0.1	8.0±0.1	1.5±0.1	4.4±0.1	4.4 ±0.1	0.35±0.1	2.3±0.1
ASPIAIG-FLR4020	12.0±0.3	5.5±0.1	8.0±0.1	1.5±0.1	4.4±0.1	4.4 ±0.1	0.35±0.1	2.3±0.1
ASPIAIG-F5020	12.0±0.3	7.5±0.1	8.0±0.1	1.5±0.1	5.7±0.1	6.0 ±0.1	0.35±0.05	2.3±0.1
ASPIAIG-F5030	16.0±0.3	7.5±0.1	8.0±0.1	1.5±0.1	5.8±0.1	5.6 ±0.1	0.35±0.05	3.3±0.1
ASPIAIG-F6030	16.0±0.3	7.5±0.1	12.0±0.1	1.5±0.1	6.8±0.1	7.0 ±0.1	0.35±0.1	3.3±0.1
ASPIAIG-F6050	16.0±0.3	7.5±0.1	12.0±0.1	1.5±0.1	6.8±0.1	7.0 ±0.1	0.35±0.1	5.3±0.1
ASPIAIG-F7020	16.0±0.3	7.5±0.1	12.0±0.1	1.5±0.1	8.2±0.1	8.0 ±0.1	0.35±0.1	2.3±0.1
ASPIAIG-F7030	16.0±0.3	7.5±0.1	12.0±0.1	1.5±0.1	8.2±0.1	8.0 ±0.1	0.35±0.1	3.3±0.1



Dimension: mm

SERIES	A	B	C	D
ASPIAIG-F4020	12.4+2/-0	100 ± 2	13.0+0.5/-0.2	330
ASPIAIG-FLR4020				
ASPIAIG-F5020				
ASPIAIG-F5030	16.4+2/-0	100 ± 2	13.0+0.5/-0.2	330
ASPIAIG-F6030				
ASPIAIG-F6050				
ASPIAIG-F7020				
ASPIAIG-F7030				