

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

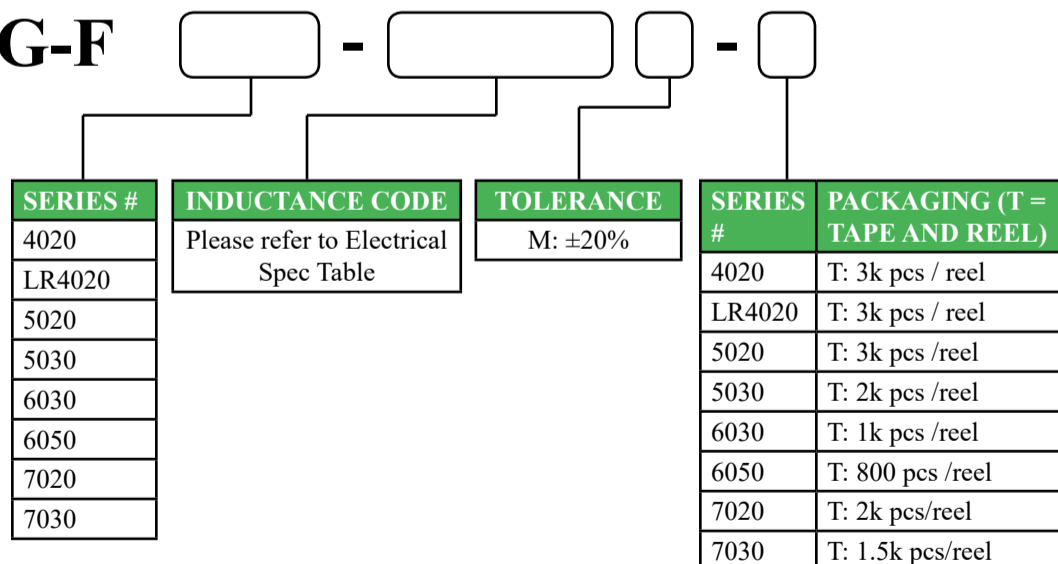
- PPAP ready and supported
- TS16949 production certified lines
- AEC-Q200 qualified
- Excellent current handling – up to 36A
- Exceptionally low DCR – only 1.75 mΩ
- Soft saturation
- Low profile for compact design
- Shielded construction reduces EMI

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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RoHS/RoHS II Compliant

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 | Isat | Irms |
| 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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| 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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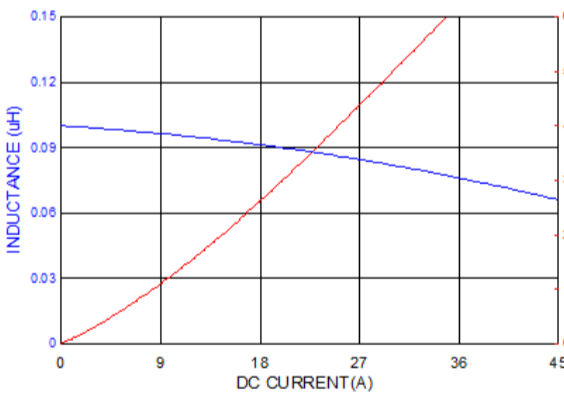


ELECTRICAL SPECIFICATIONS

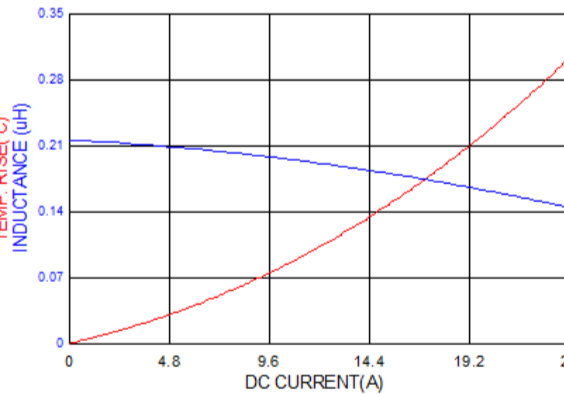
| PART NUMBER | INDUCTANCE | TOLERANCE | DC RESISTANCE | SATURATION CURRENT | TEMPERATURE RISE CURRENT | D |
|-------------------|-------------|-----------|---------------|--------------------|--------------------------|-----|
| | 0.1MHz/0.1V | | MAX | MAX | MAX | |
| UNITS | μH | % | mΩ | A | A | mm |
| SYMBOL | L | M | DCR | Isat | I _{rms} | |
| 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

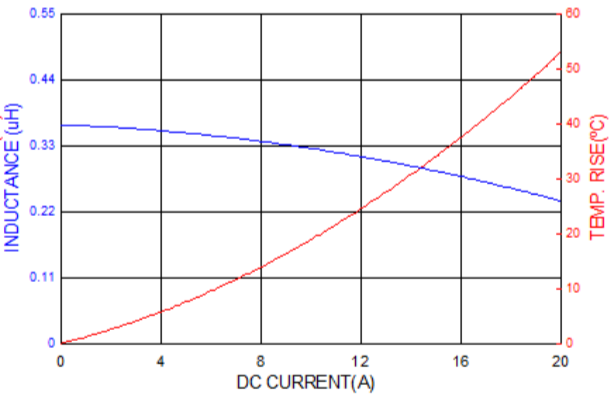
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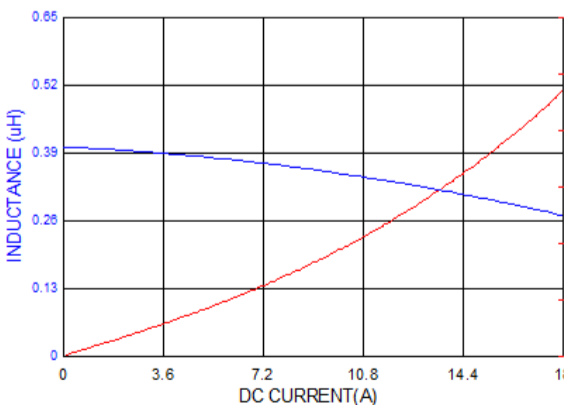
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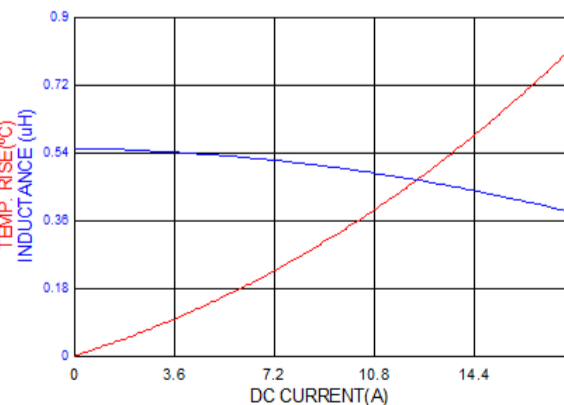
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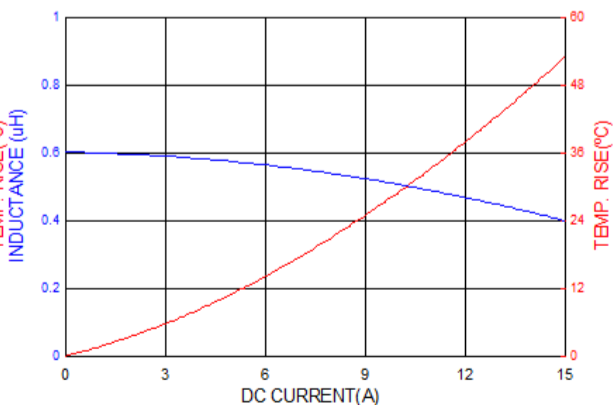
ASPIAIG-F4020-R40



ASPIAIG-F4020-R56



ASPIAIG-F4020-R60



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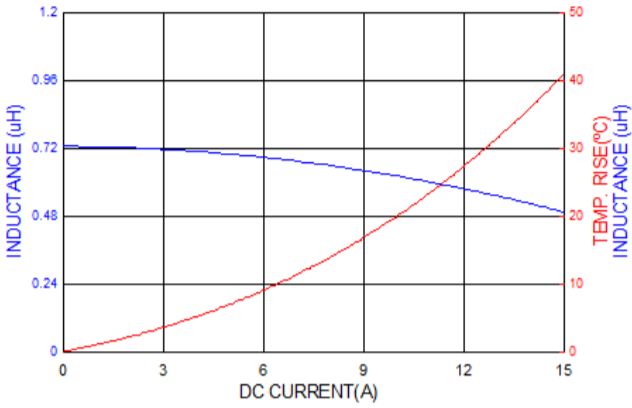
ASPIAIG-F SERIES

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MSL = 1

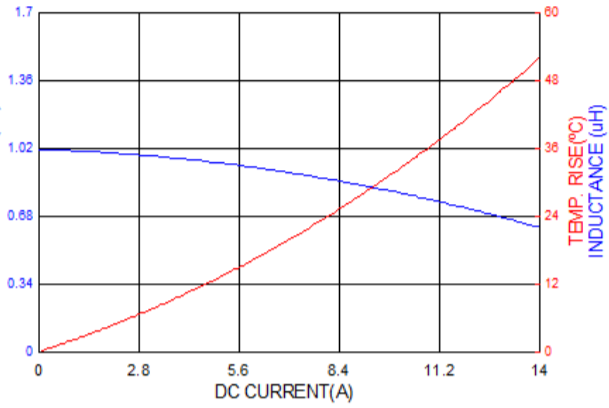


ELECTRICAL SPECIFICATIONS

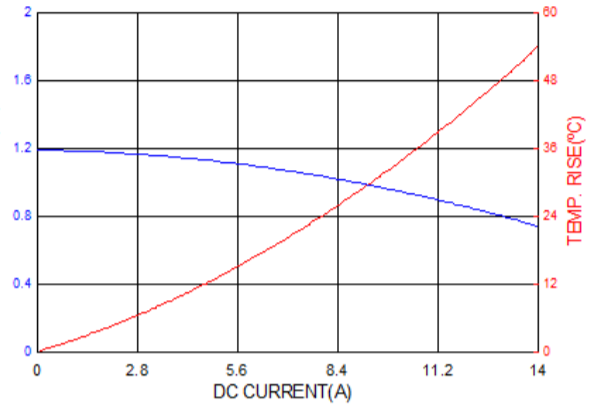
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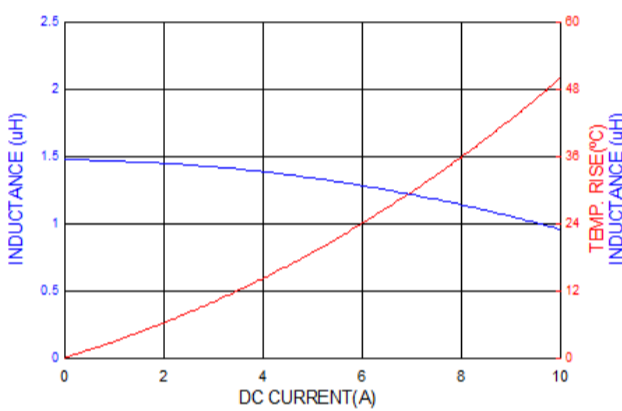
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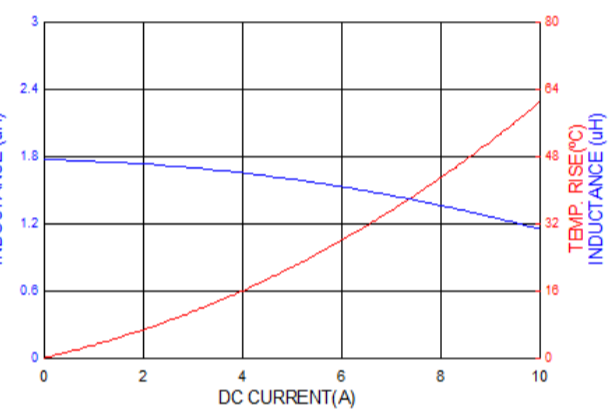
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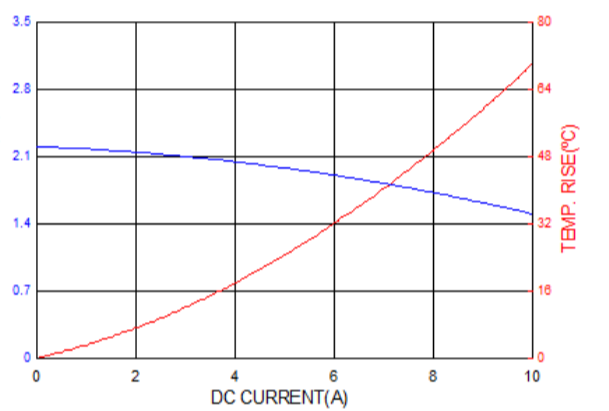
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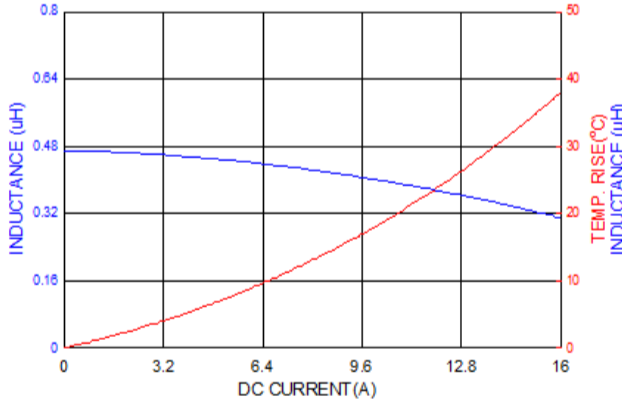
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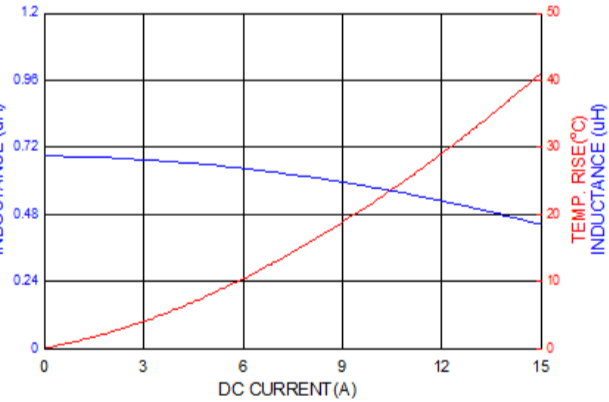
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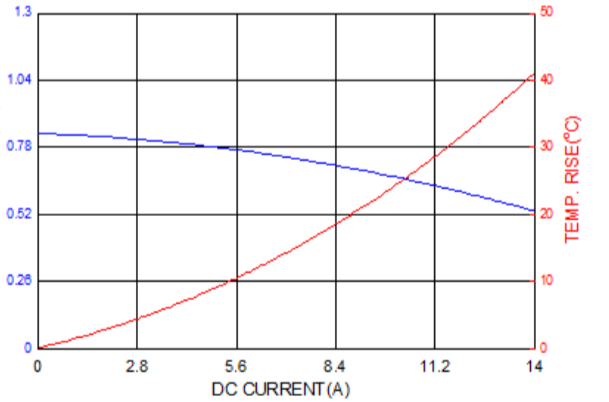
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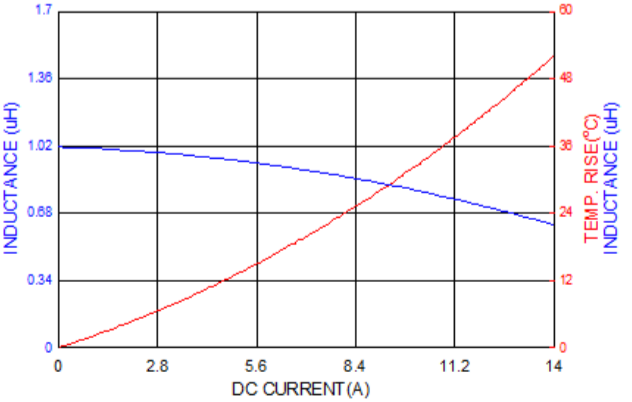
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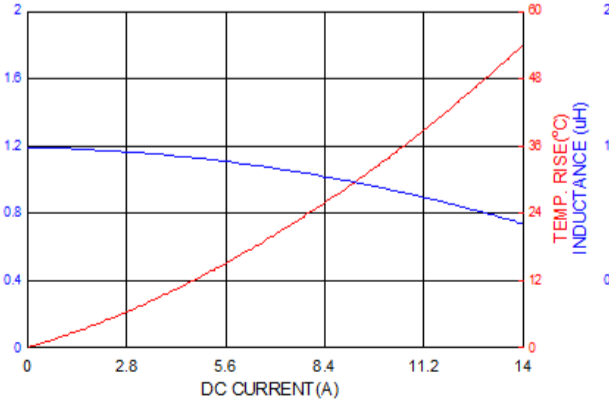
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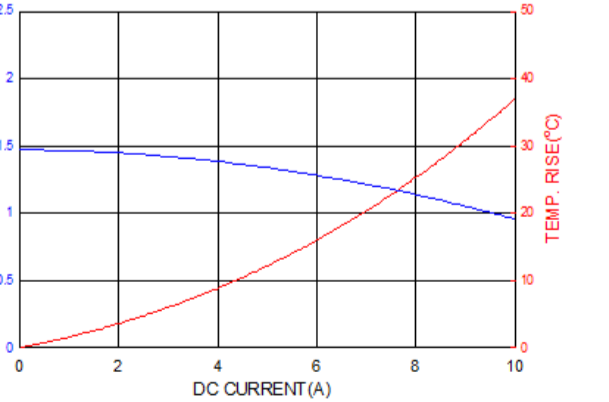
ASPIAIG-FLR4020-1R0



ASPIAIG-FLR4020-1R2



ASPIAIG-FLR4020-1R5



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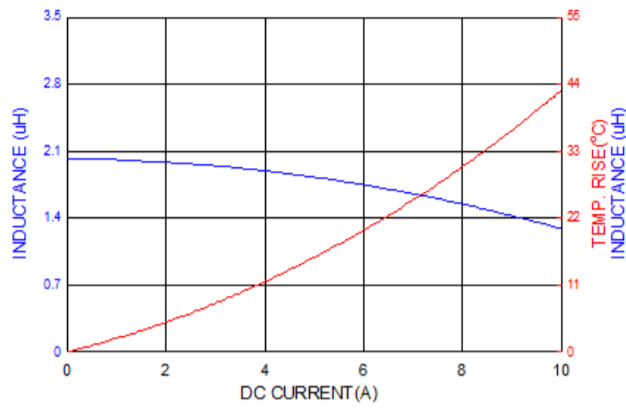
Dimensions vary

MSL = 1

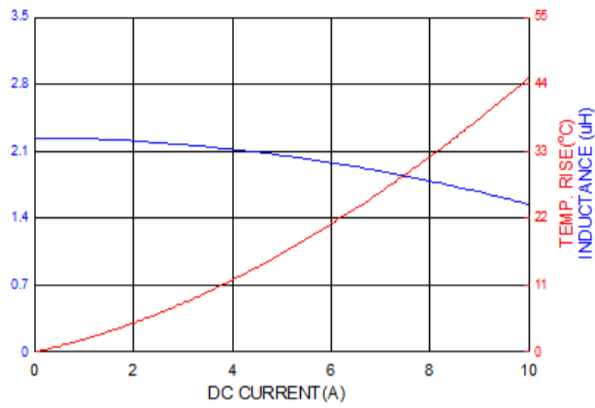


ELECTRICAL CHARACTERISTICS

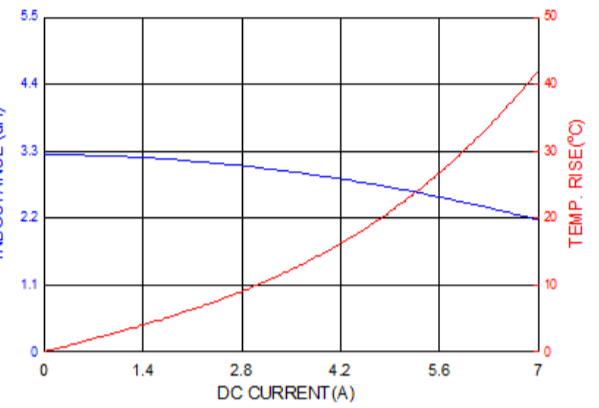
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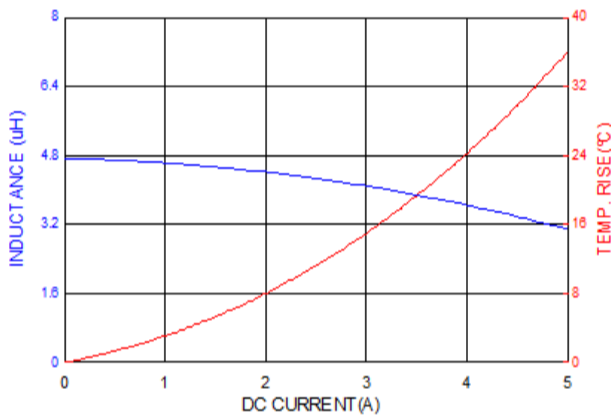
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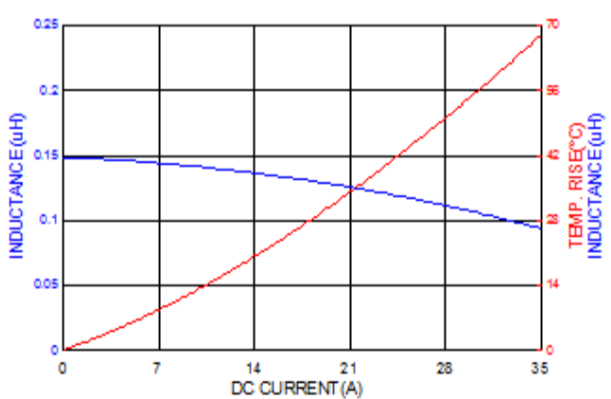
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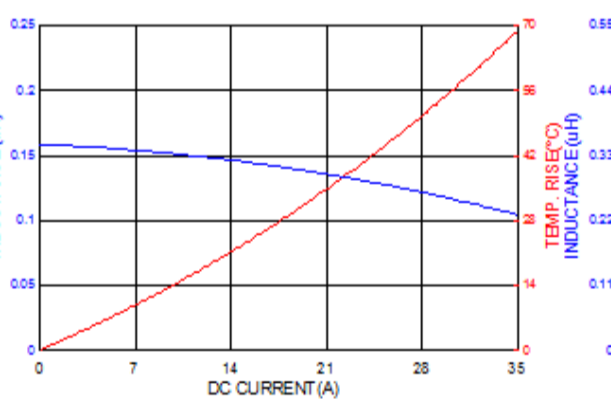
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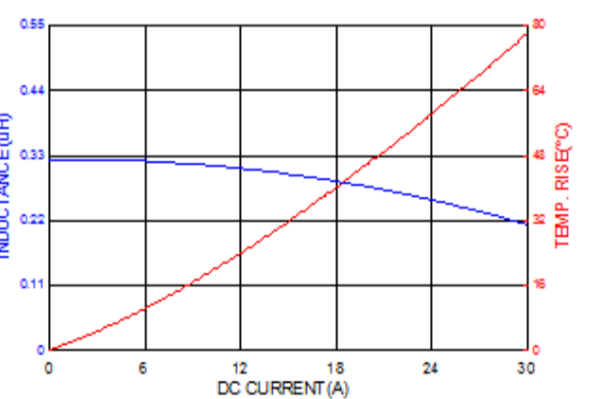
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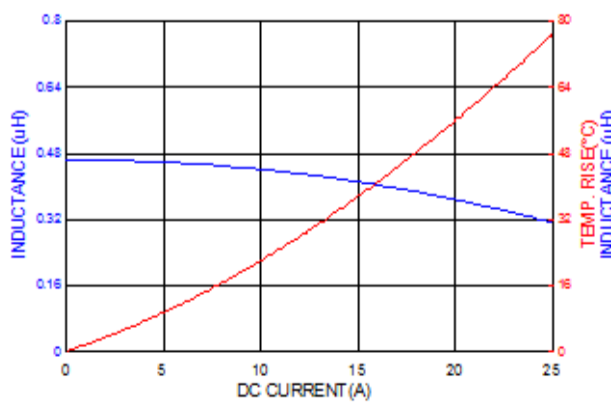
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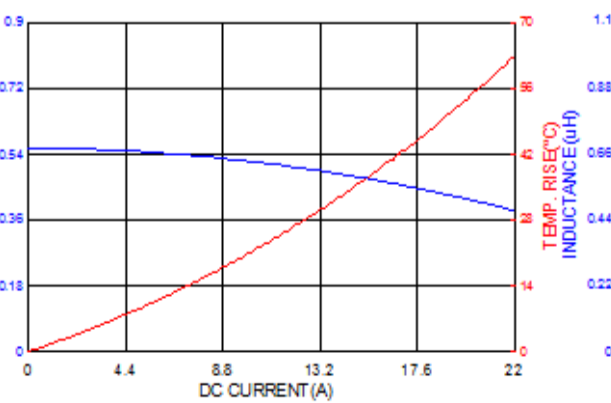
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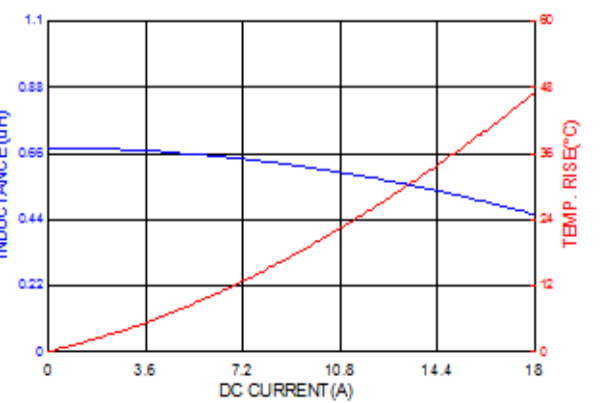
ASPIAIG-F5020-R47



ASPIAIG-F5020-R47



ASPIAIG-F5020-R68



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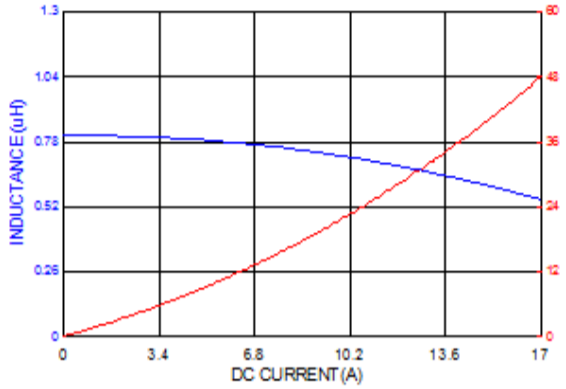
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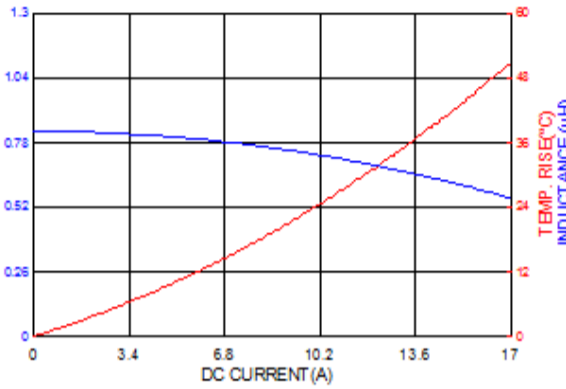


ELECTRICAL CHARACTERISTICS

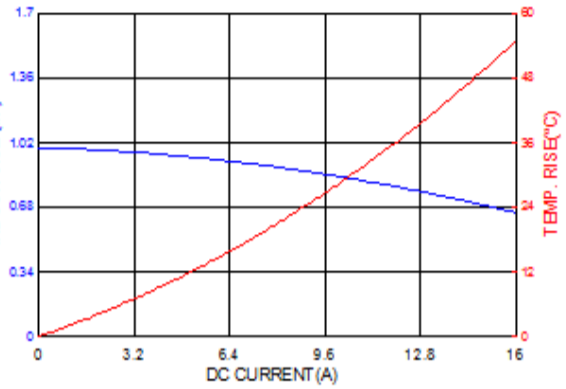
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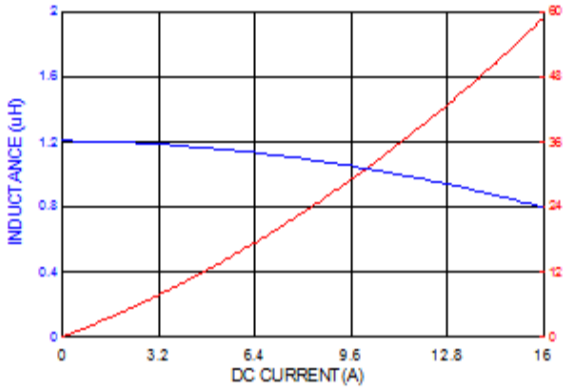
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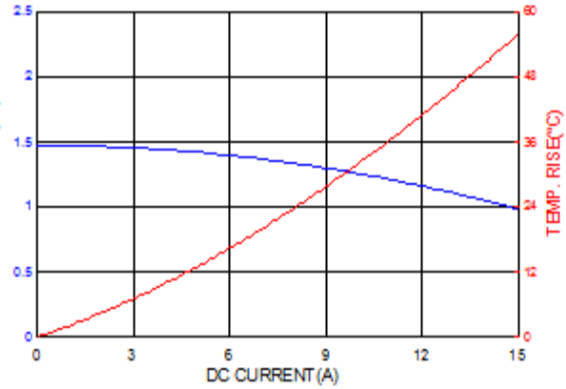
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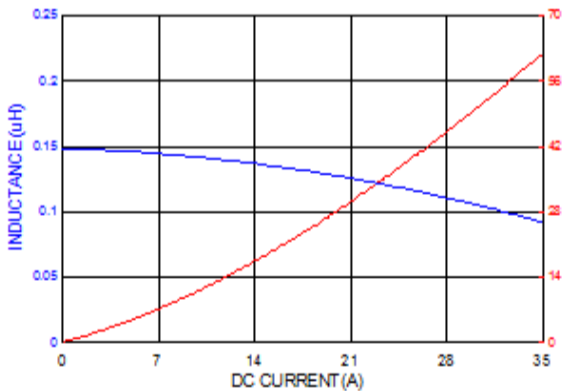
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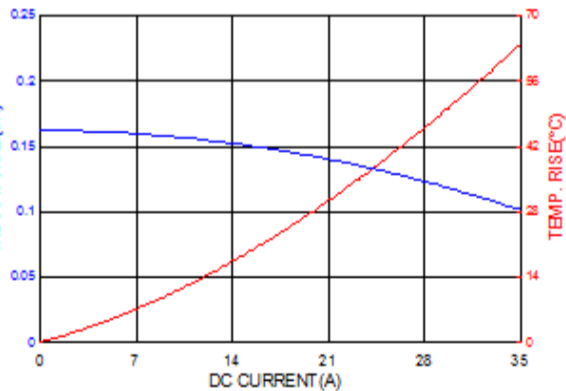
ASPIAIG-F5020-1R5



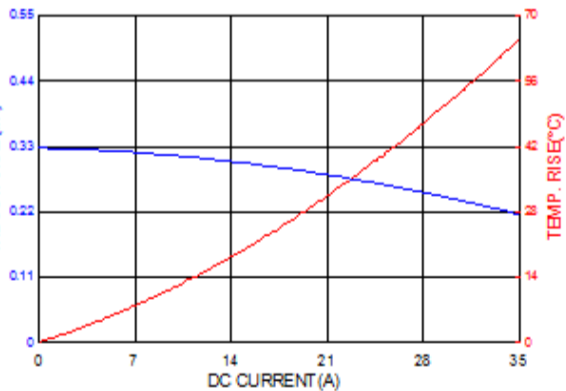
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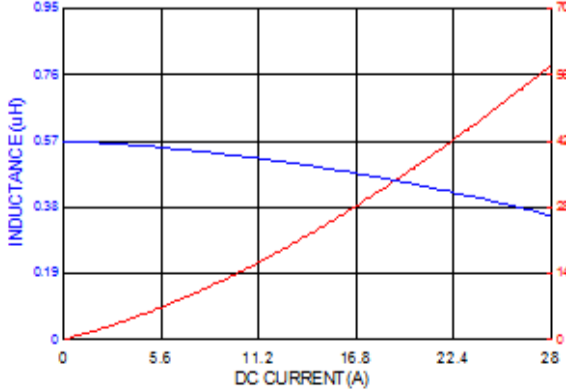
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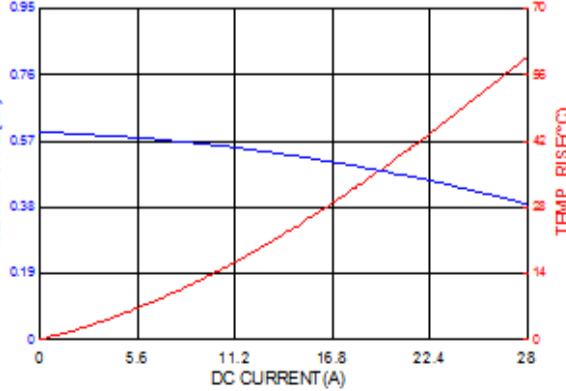
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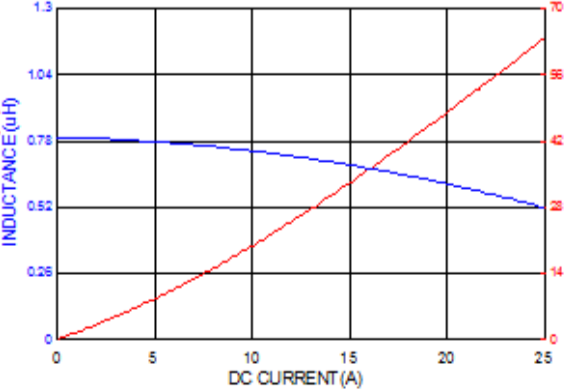
ASPIAIG-F5030-R56



ASPIAIG-F5030-R60



ASPIAIG-F5030-R80



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HIGH CURRENT SHIELDED SMD POWER INDUCTOR AIG



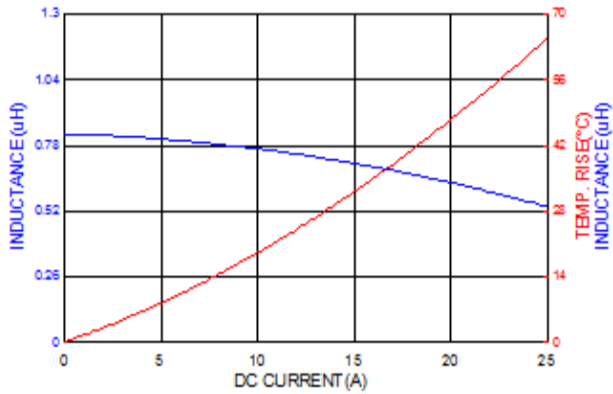
ASPIAIG-F SERIES

Dimensions vary
MSL = 1

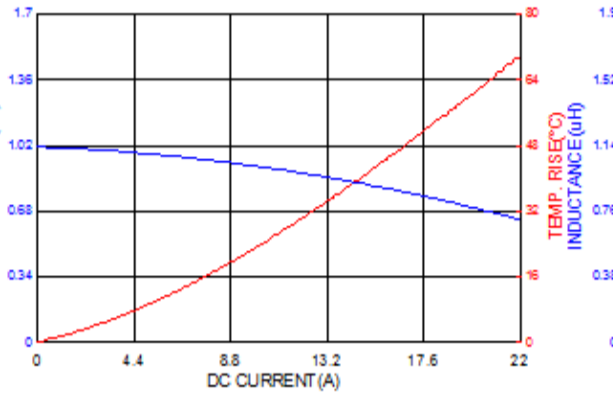


ELECTRICAL CHARACTERISTICS

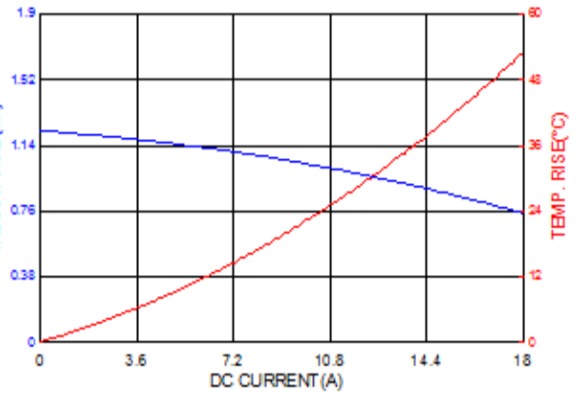
ASPIAIG-F5030-R82



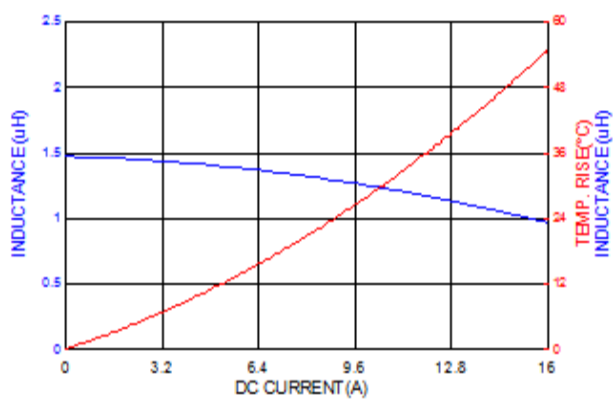
ASPIAIG-F5030-1R0



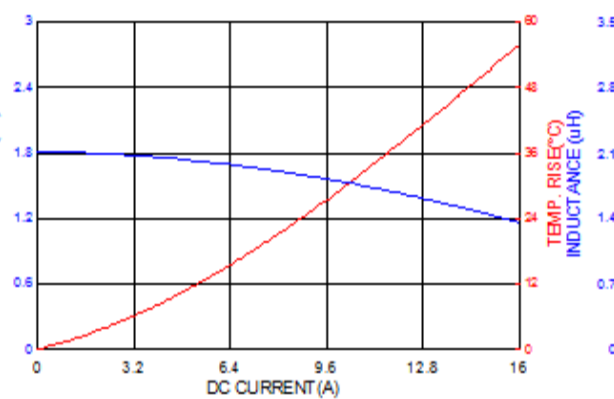
ASPIAIG-F5030-1R2



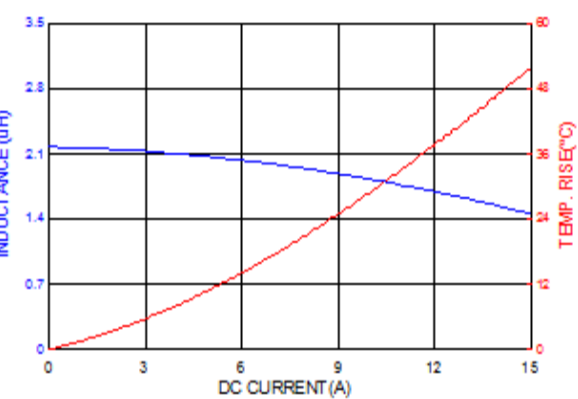
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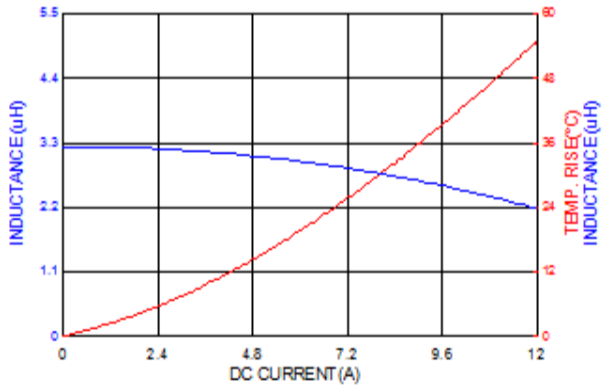
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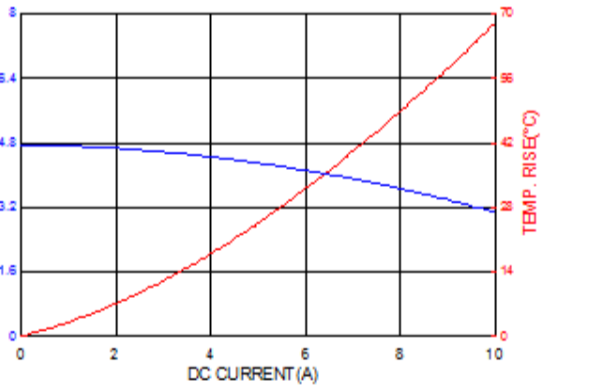
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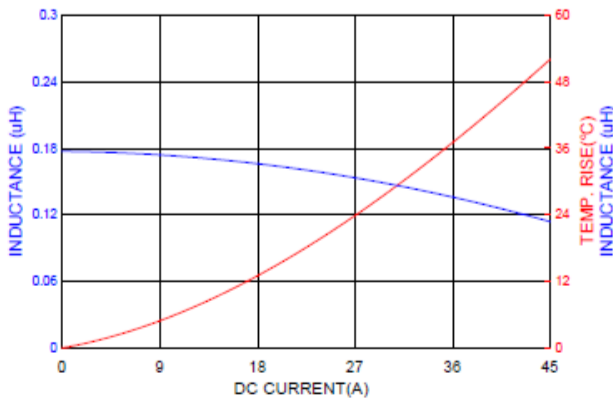
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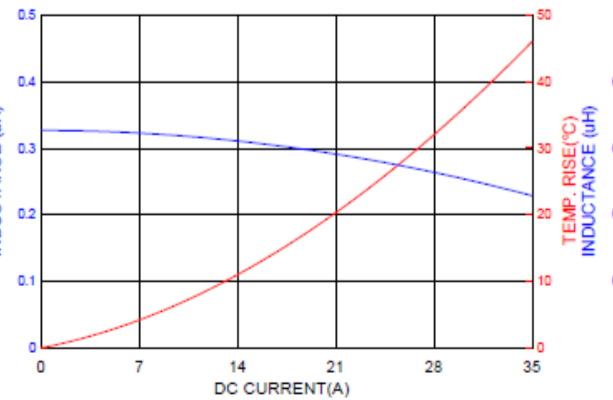
ASPIAIG-F5030-4R7



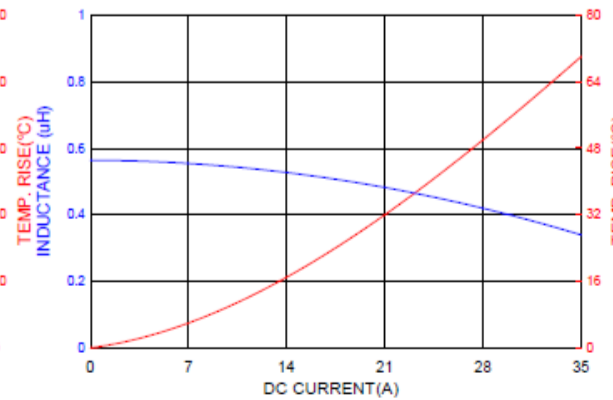
ASPIAIG-F6030-R18



ASPIAIG-F6030-R33



ASPIAIG-F6030-R56



REVISED: 11.07.2017

HIGH CURRENT SHIELDED SMD POWER INDUCTOR AIG



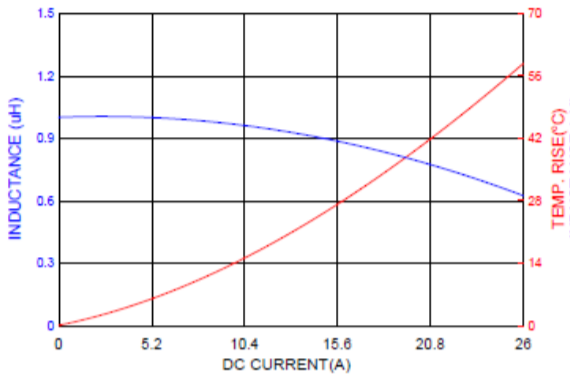
ASPIAIG-F SERIES

Dimensions vary
MSL = 1

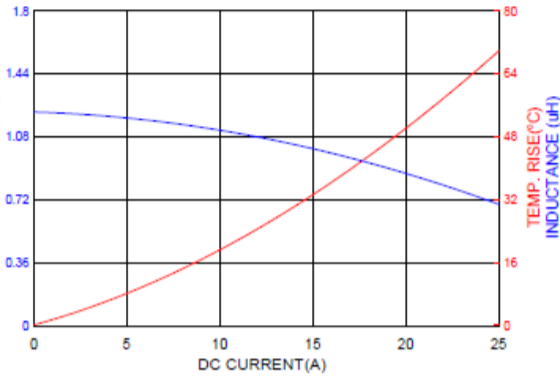


ELECTRICAL CHARACTERISTICS

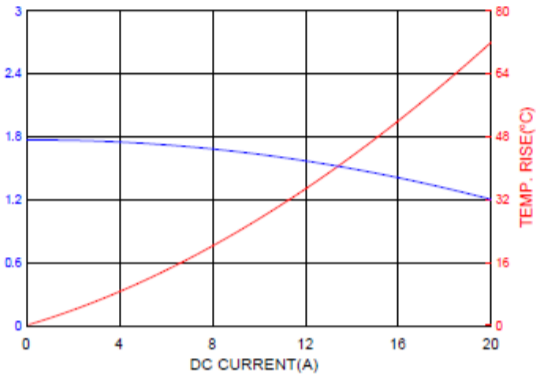
ASPIAIG-F6030-1R0



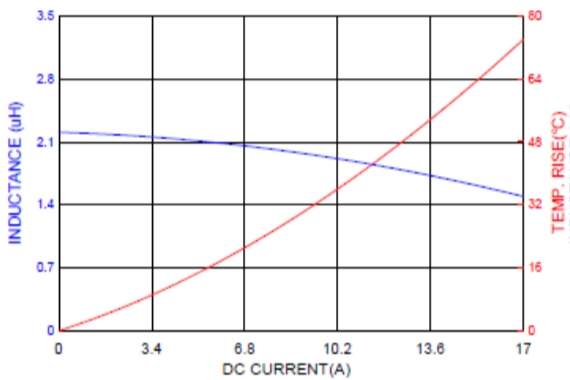
ASPIAIG-F6030-1R2



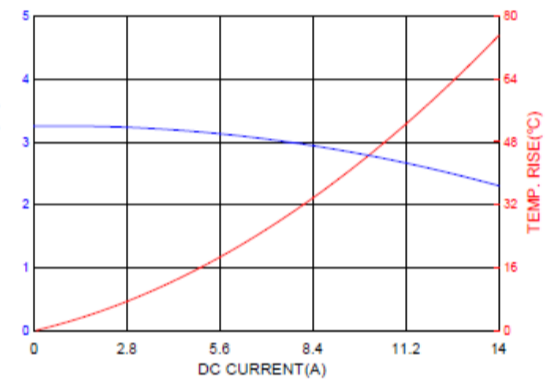
ASPIAIG-F6030-1R8



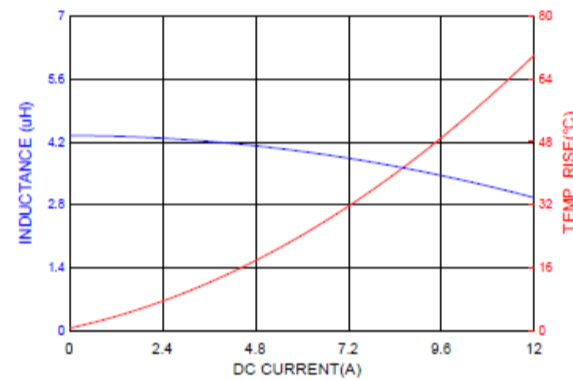
ASPIAIG-F6030-2R2



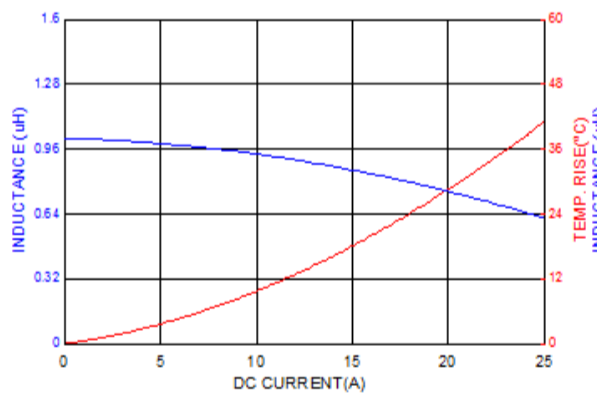
ASPIAIG-F6030-3R3



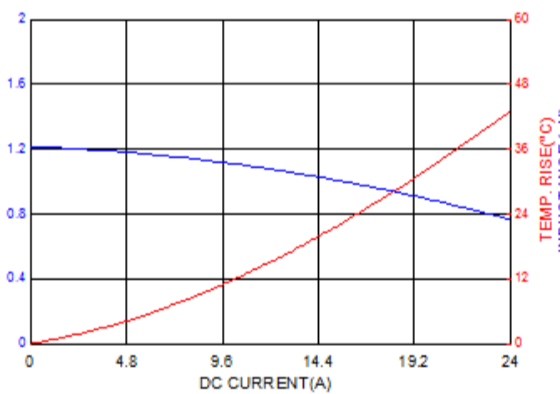
ASPIAIG-F6030-4R5



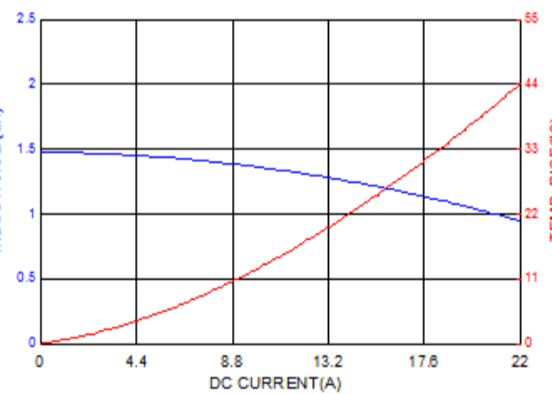
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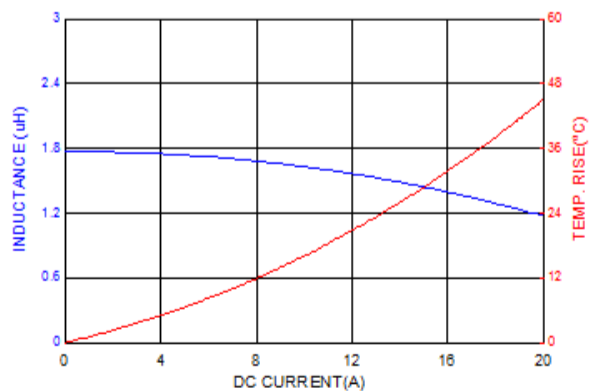
ASPIAIG-F6050-1R2



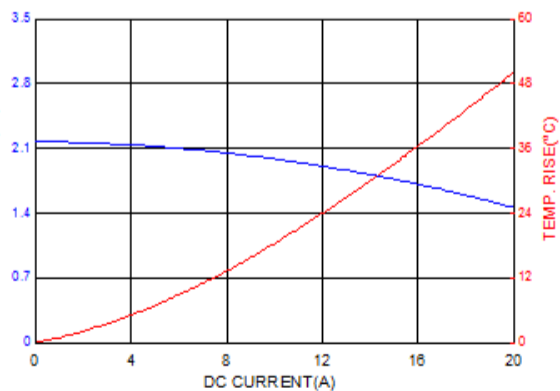
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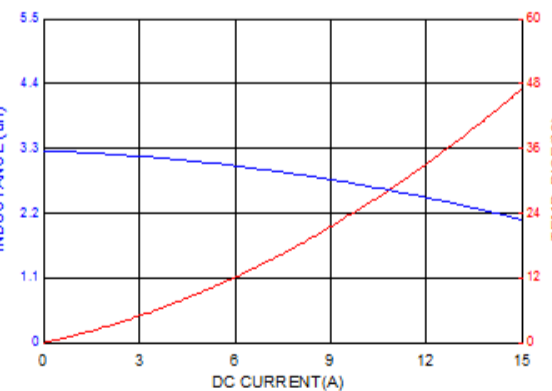
ASPIAIG-F6050-1R8



ASPIAIG-F6050-2R2



ASPIAIG-F6050-3R3



HIGH CURRENT SHIELDED SMD POWER INDUCTOR AIG



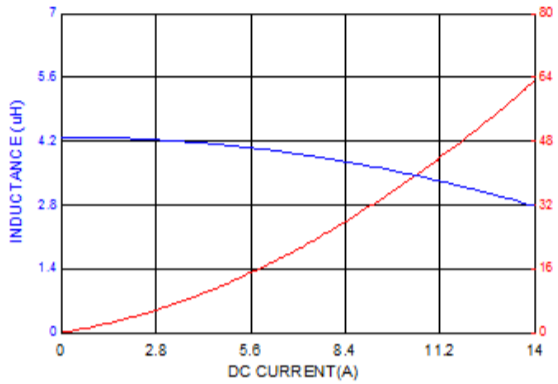
ASPIAIG-F SERIES

Dimensions vary
MSL = 1

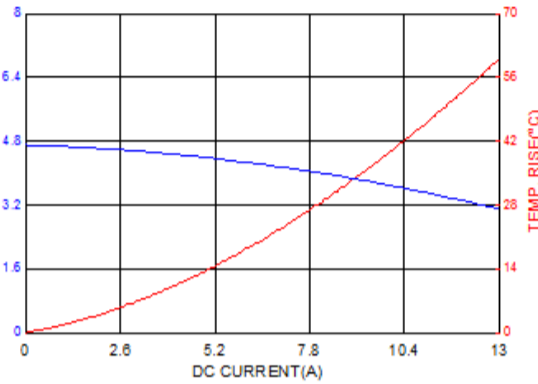


ELECTRICAL CHARACTERISTICS

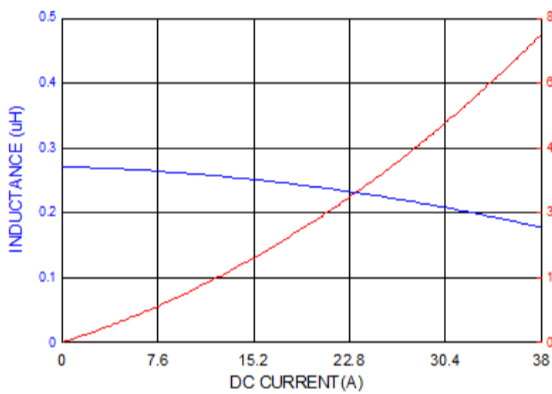
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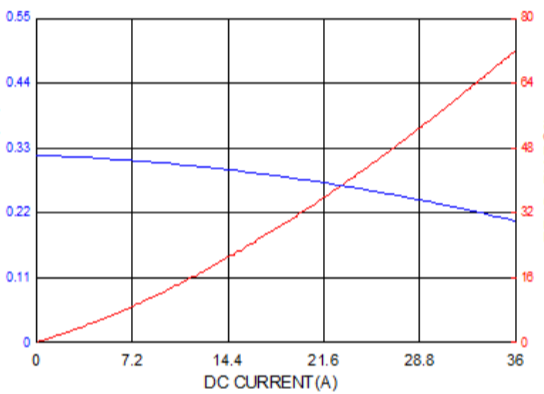
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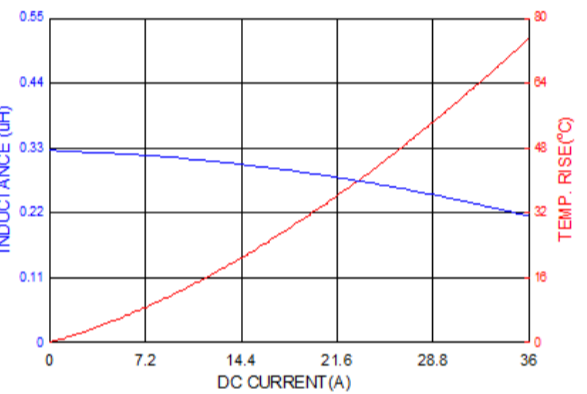
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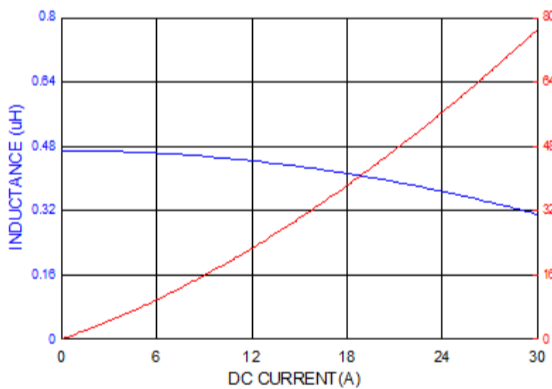
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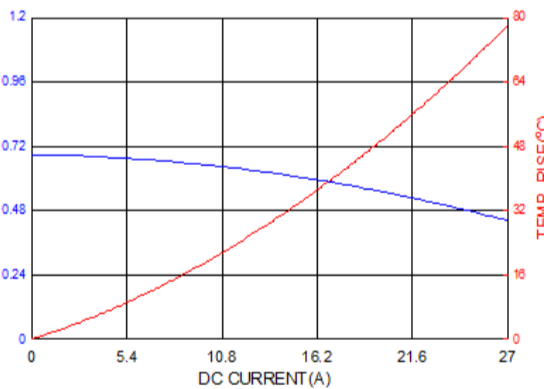
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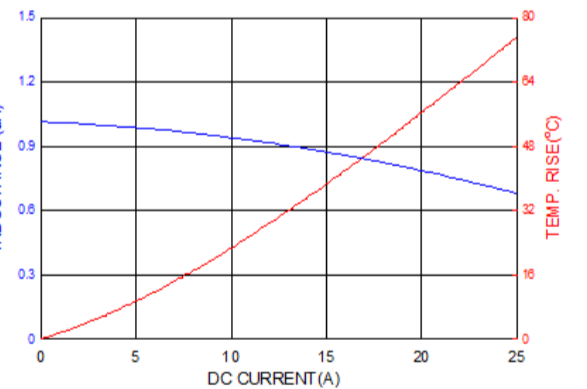
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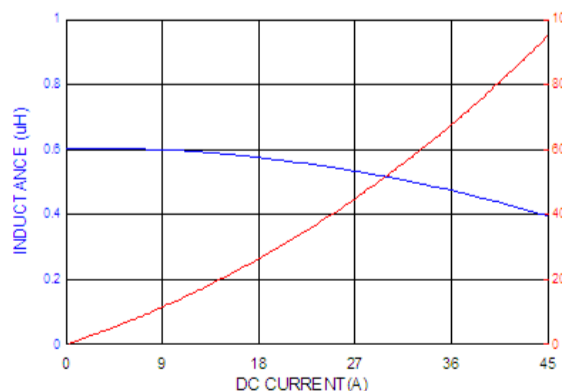
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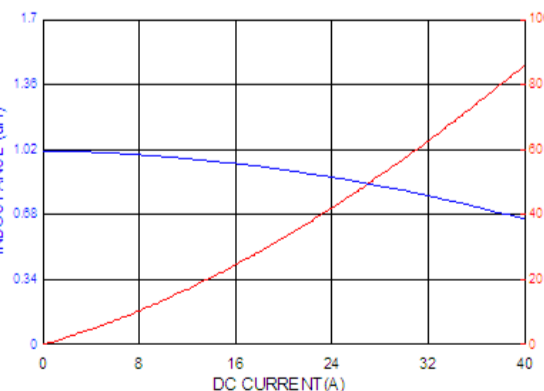
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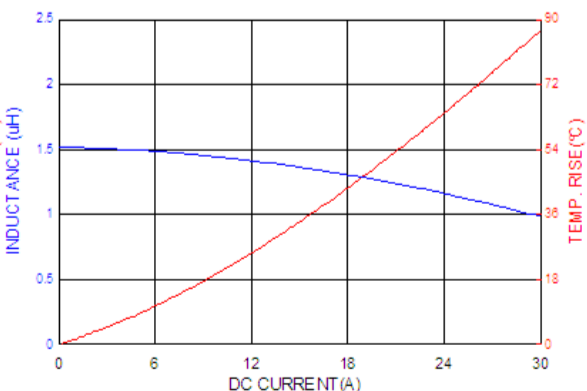
ASPIAIG-F7030-R60



ASPIAIG-F7030-1R0



ASPIAIG-F7030-1R5



HIGH CURRENT SHIELDED SMD POWER INDUCTOR AIG

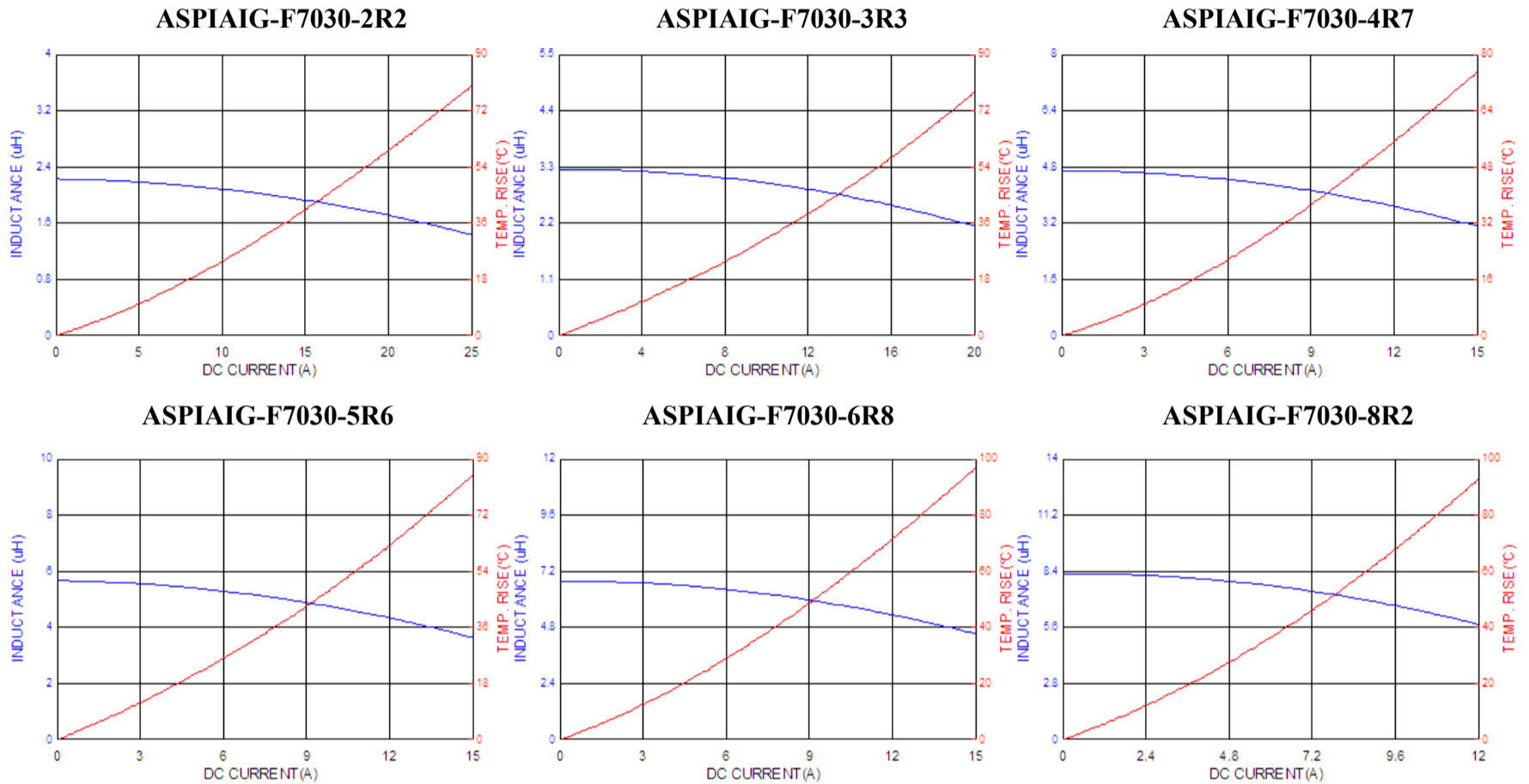


ASPIAIG-F SERIES

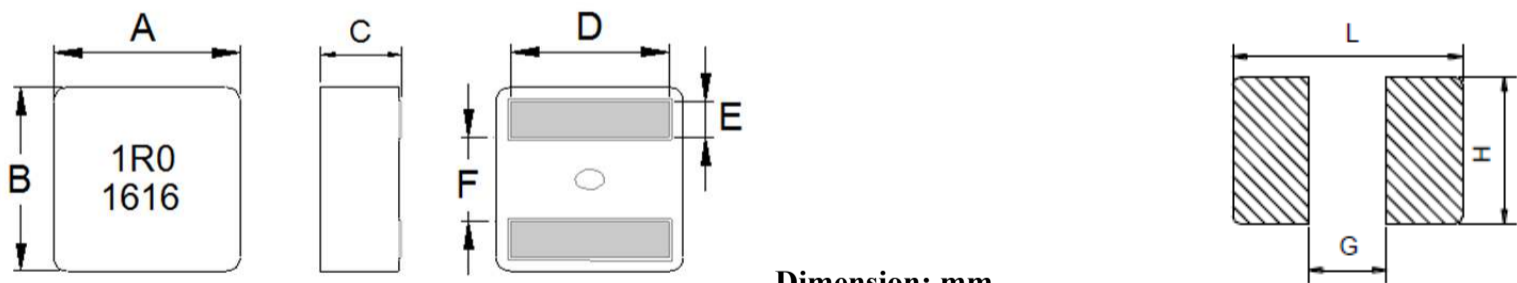
Dimensions vary
MSL = 1



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 | | | |

REVISED: 11.07.2017



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HIGH CURRENT SHIELDED SMD POWER INDUCTOR AIG

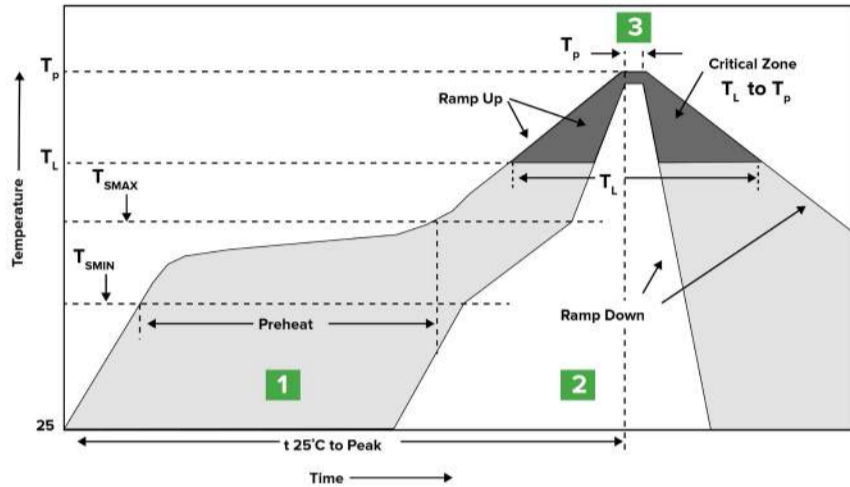


ASPIAIG-F SERIES

Dimensions vary
MSL = 1

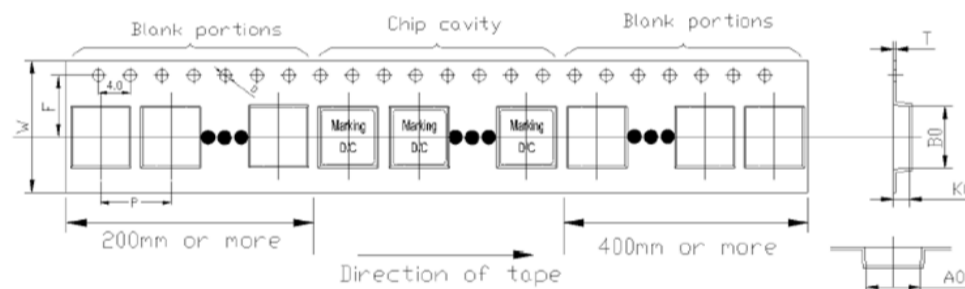


REFLOW

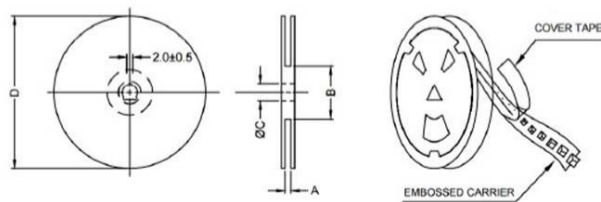


| Zone | Description | Temperature | Times |
|------|-------------|---|----------------|
| 1 | Preheat | $T_{SMIN} \sim T_{SMAX}$ 150°C ~ 180°C | 120 ~ 180 sec. |
| 2 | Reflow | T_L 217°C | 60 ~ 150 sec. |
| 3 | Peak heat | T_P 245°C | 5 sec. MAX |

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 | | | | |