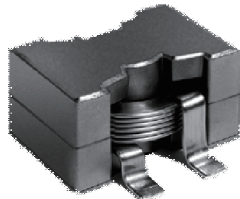


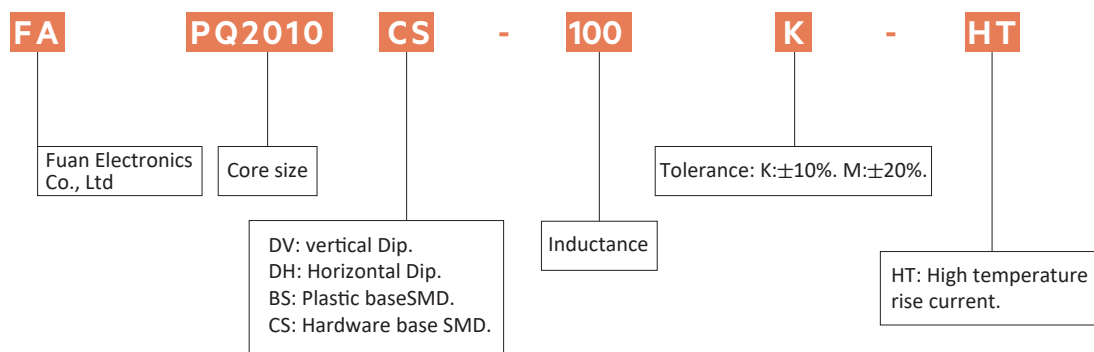
HIGH CURRENT POWER INDUCTOR

FAPQ2010 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.
- Weight: App. 12.0g



ELECTRICAL CHARACTERISTICS AT 25°C

| Part Number | Ind.(uH) | D.C.Resistance (mΩ) | | I _{last} (A)Typical | | I _{rms} (A)Typical: Δt40°C | |
|-------------------|----------|---------------------|------|------------------------------|-----------|-------------------------------------|--|
| | | Typ | Max | Drop20% | 5 minutes | 30 minutes | |
| FAPQ2010□-R47M | 0.47 | 0.65 | 0.75 | 90 | 50.0 | 34.0 | |
| FAPQ2010□-R47M-HT | 0.47 | 0.49 | 0.55 | 90 | 55.0 | 40.0 | |
| FAPQ2010□-R82M | 0.82 | 0.65 | 0.75 | 55 | 50.0 | 34.0 | |
| FAPQ2010□-R82M-HT | 0.82 | 0.49 | 0.55 | 55 | 55.0 | 40.0 | |
| FAPQ2010□-1R0M | 1.0 | 0.65 | 0.75 | 45 | 50.0 | 34.0 | |
| FAPQ2010□-1R0M-HT | 1.0 | 0.49 | 0.55 | 45 | 55.0 | 40.0 | |
| FAPQ2010□-1R5M | 1.5 | 0.65 | 0.75 | 30 | 50.0 | 34.0 | |
| FAPQ2010□-1R5M-HT | 1.5 | 0.49 | 0.55 | 30 | 55.0 | 40.0 | |
| FAPQ2010□-1R8M | 1.8 | 1.16 | 1.30 | 38 | 40.0 | 25.0 | |
| FAPQ2010□-1R8M-HT | 1.8 | 0.90 | 1.00 | 38 | 45.0 | 30.0 | |
| FAPQ2010□-2R2M | 2.2 | 1.16 | 1.30 | 30 | 40.0 | 25.0 | |

Product datasheet

ELECTRICAL CHARACTERISTICS AT 25°C

Dimension in mm

| Part Number | Ind.(uH) | D.C.Resistance (mΩ) | | last (A)Typical Drop20% | I _{rms} (A)Typical: ^Δ t40°C | |
|-------------------|----------|---------------------|------|----------------------------|---|------------|
| | | Typ | Max | | 5 minutes | 30 minutes |
| FAPQ2010□-2R2M-HT | 2.2 | 0.90 | 1.00 | 30 | 45.0 | 30.0 |
| FAPQ2010□-2R7M | 2.7 | 1.16 | 1.30 | 23 | 40.0 | 25.0 |
| FAPQ2010□-2R7M-HT | 2.7 | 0.90 | 1.00 | 23 | 45.0 | 28.0 |
| FAPQ2010□-3R3M | 3.3 | 1.16 | 1.30 | 20 | 40.0 | 25.0 |
| FAPQ2010□-4R7M | 4.7 | 1.16 | 1.30 | 17 | 40.0 | 25.0 |
| FAPQ2010□-5R6M | 5.6 | 4.50 | 5.00 | 23 | 18.0 | 13.0 |
| FAPQ2010□-6R8M | 6.8 | 4.50 | 5.00 | 20 | 18.0 | 13.0 |
| FAPQ2010□-8R2M | 8.2 | 4.50 | 5.00 | 17 | 18.0 | 13.0 |
| FAPQ2010□-100K | 10.0 | 4.50 | 5.00 | 14 | 18.0 | 13.0 |

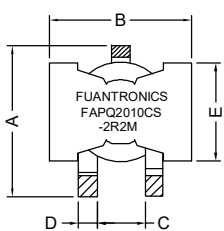
TEST CONDITIONS:

- 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 temprure in the final application..

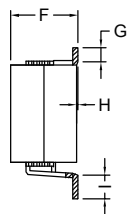
ELECTRICAL INFORMATION

Dimension in mm

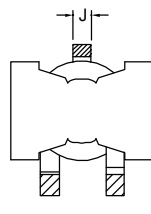
2010CS



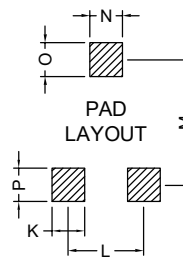
Top view



Side view

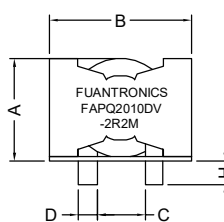


Bottom view



| | | | |
|---|-----------|---|-----------|
| A | 22.5 Max | I | 2.50±0.50 |
| B | 21.8 Max | J | 2.50±0.20 |
| C | 7.00±0.60 | K | 5.00 REF |
| D | 2.50±0.20 | L | 9.50 REF |
| E | 14.0±0.50 | M | 19.3 REF |
| F | 10.5 Max | N | 5.00 REF |
| G | 2.00 REF | O | 5.00 REF |
| H | 0-0.15 | P | 5.00 REF |

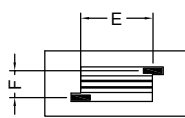
2010DV



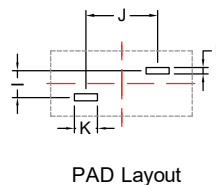
Top view



Side view



Bottom view



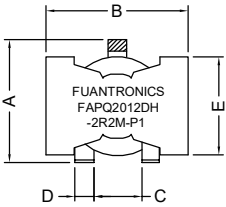
| | | | |
|---|-----------|---|----------|
| A | 16.0 Max | I | 3.00 REF |
| B | 21.8 Max | J | 9.50 REF |
| C | 7.00±0.60 | K | 5.00 REF |
| D | 2.50±0.20 | L | 1.50 REF |
| E | 9.50±0.50 | | |
| F | 3.00±0.50 | | |
| G | 10.5 Max | | |
| H | 3.50±0.50 | | |

Product datasheet

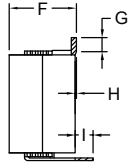
ELECTRICAL INFORMATION

Dimension in mm

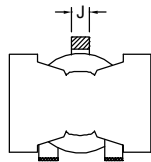
2010DH-P1



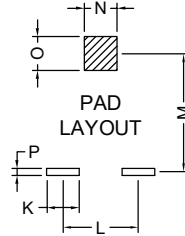
Top view



Side view

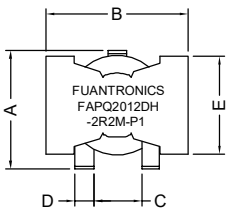


Bottom view

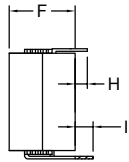


| | | | |
|---|-----------|---|-----------|
| A | 22.5 Max | I | 3.50±0.50 |
| B | 21.8 Max | J | 2.50±0.20 |
| C | 7.00±0.60 | K | 5.00 REF |
| D | 2.50±0.20 | L | 9.50 REF |
| E | 14.0±0.50 | M | 17.5 REF |
| F | 10.5 Max | N | 5.00 REF |
| G | 2.00 REF | O | 5.00 REF |
| H | 0-0.15 | P | 1.50 REF |

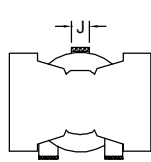
2010DH-P2



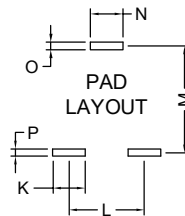
Top view



Side view



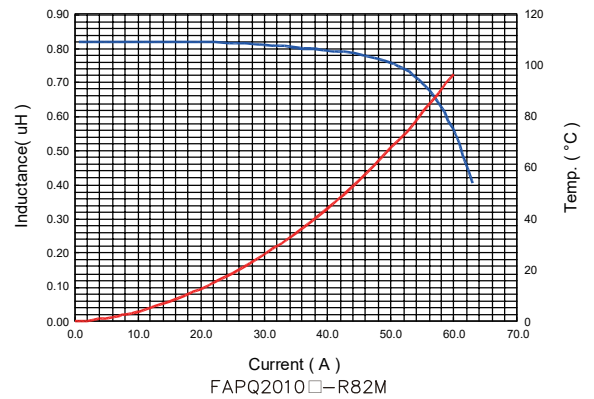
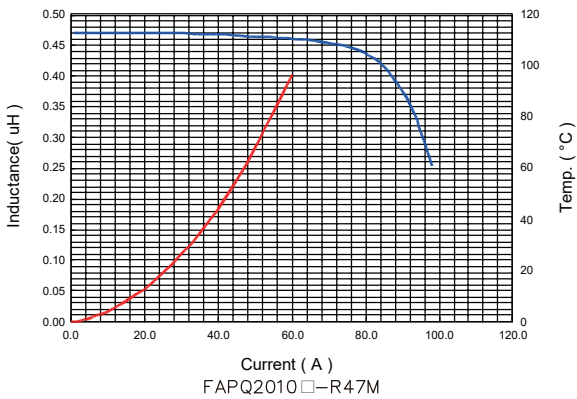
Bottom view



| | | | |
|---|-----------|---|-----------|
| A | 22.5 Max | I | 3.50±0.50 |
| B | 21.8 Max | J | 2.50±0.20 |
| C | 7.00±0.60 | K | 5.00 REF |
| D | 2.50±0.20 | L | 9.50 REF |
| E | 14.0±0.50 | M | 15.0 REF |
| F | 10.5 Max | N | 5.00 REF |
| G | 2.00 REF | O | 1.50 REF |
| H | 2.50±0.50 | P | 1.50 REF |

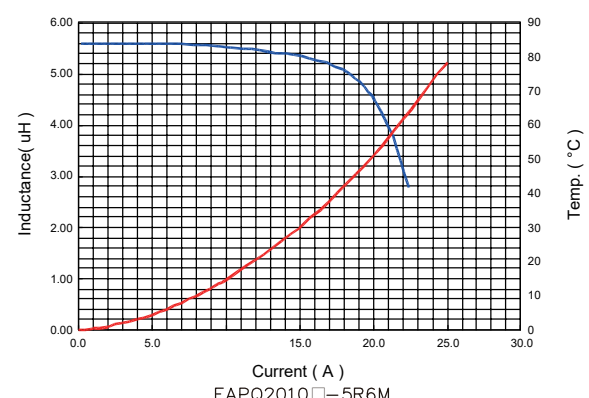
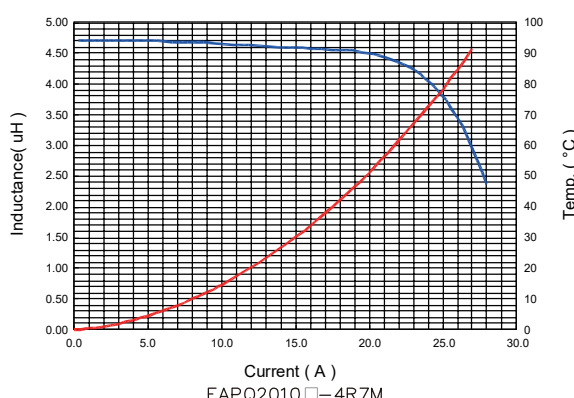
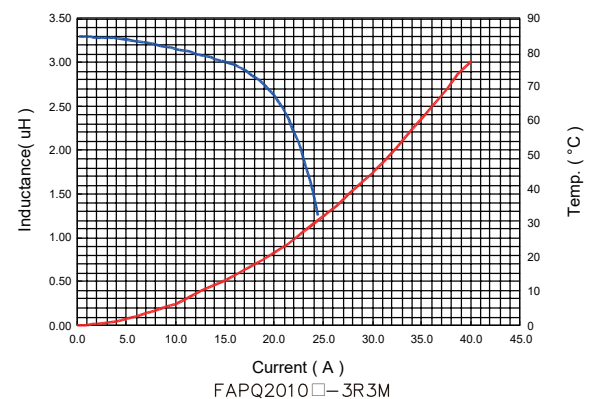
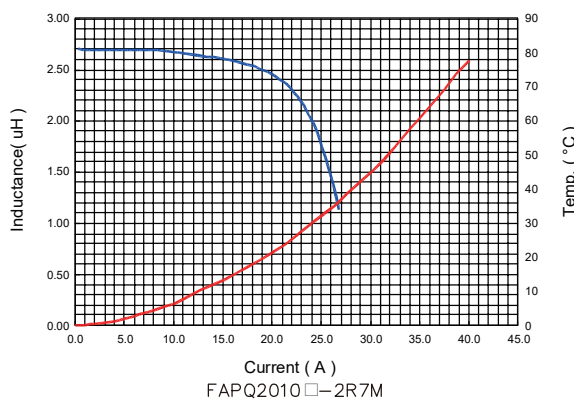
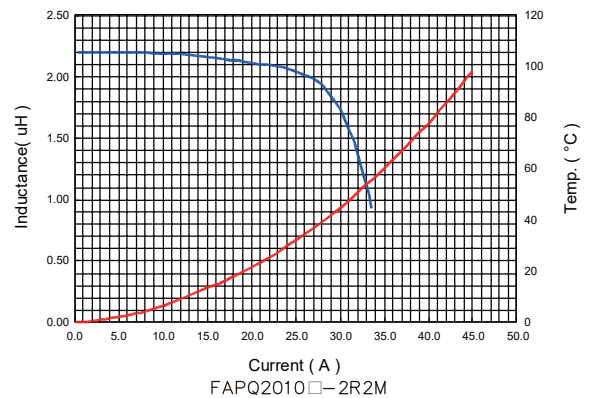
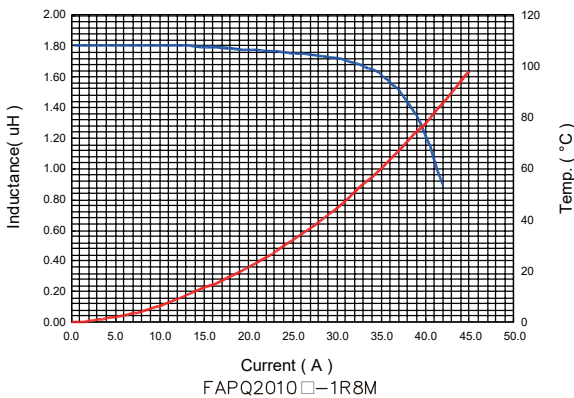
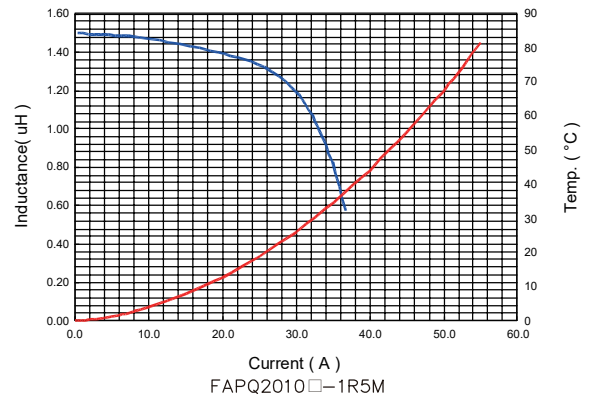
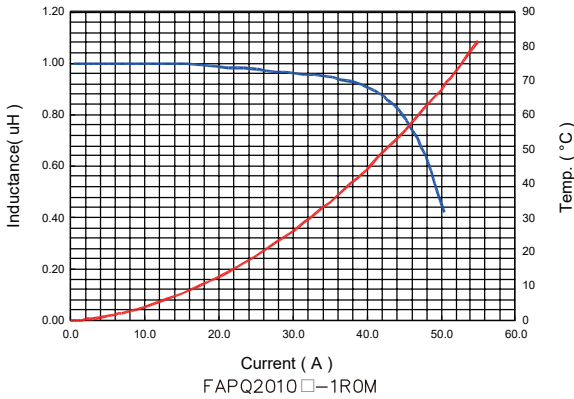
CURRENT VS TEMPERATURE RISE

(Temperature rise current is 30 minutes)



CURRENT VS TEMPERATURE RISE

(Temperature rise current is 30 minutes)



Product datasheet

CURRENT VS TEMPERATURE RISE

(Temperature rise current is 30 minutes)

