



扁平线一体成型电感 ASF21 系列
Flat wire molding power inductors ASF21 series



SMT Power Inductors
Flat Wire Coils - ASF2110M ASF2112M series

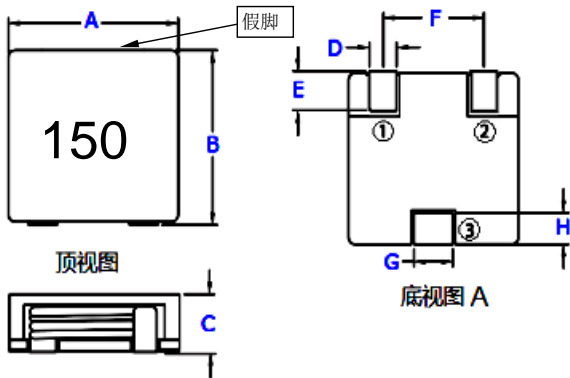


Inductance Range: 1.0uH to 50.0uH
Current Rating: up to 70Apk
Footprint: 21.7mm x 21.5mm Max

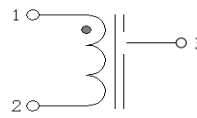
Height: 10.6 / 12.5mm Max
No Thermal Aging

Electrical Specifications @ 25°C — Operating Temperature -40°C to +125°C

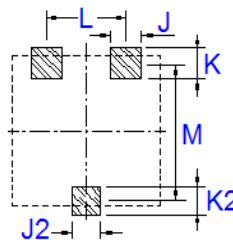
| MCT Part Number | Controlled Electrical Specs. | | I _{rated} (A) | Heating Current I _{dc} (A TYP) | Saturation Current I _{sat} (A TYP) _{25°C} | BOTTOM VIEW | Size D (REF.) mm | Height Size C (Max.) mm | Pulse Part Number |
|-----------------|------------------------------|--------------|------------------------|---|---|-------------|------------------|-------------------------|-------------------|
| | Inductance @ 0Adc (uH ±20%) | DCR (mΩ) Max | | | | | | | |
| ASF2110M-1R0M | 1.0 | 1.4 | 40 | 40 | 70 | A | [3.0] | 10.6 | PG1083.102NL |
| ASF2110M-1R5M | 1.5 | 1.4 | 40 | 40 | 52 | A | [3.0] | 10.6 | PG1083.152NL |
| ASF2110M-2R2M | 2.2 | 1.8 | 34 | 34 | 46 | A | [3.0] | 10.6 | PG1083.222NL |
| ASF2110M-3R3M | 3.3 | 2.2 | 28 | 28 | 37 | A | [3.0] | 10.6 | PG1083.332NL |
| ASF2110M-4R7M | 4.7 | 2.8 | 26 | 26 | 30 | A | [3.0] | 10.6 | PG1083.472NL |
| ASF2112M-6R8M | 6.8 | 3.8 | 22 | 22 | 26 | A | [3.0] | 12.5 | PG1083.682NL |
| ASF2112M-100M | 10.5 | 6.0 | 17.5 | 17.5 | 22.5 | A | [3.0] | 12.5 | PG1083.103NL |
| ASF2112M-150M | 15.2 | 9.2 | 14 | 14.0 | 18.5 | A | [3.0] | 12.5 | PG1083.153NL |
| ASF2112M-240M | 24.5 | 15.0 | 11 | 11.0 | 14.5 | A | [3.0] | 12.5 | PG1083.253NL |
| ASF2112M-320M | 32.0 | 21.5 | 9 | 9.0 | 12.5 | A | [3.0] | 12.5 | PG1083.323NL |
| ASF2112M-500M | 50.0 | 32.6 | 7.4 | 7.4 | 10.0 | A | [3.0] | 12.5 | PG1083.503NL |



Connections circuit diagram

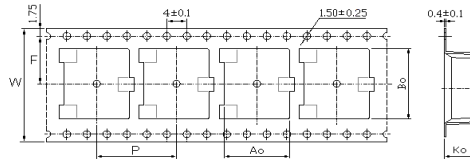
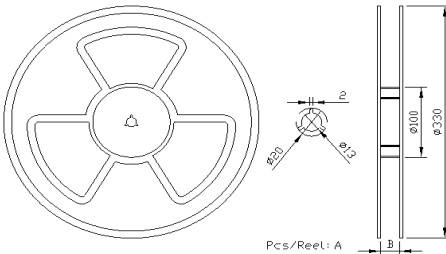


Suggested pad layout

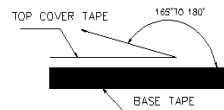


| | |
|----|-----------|
| A | 21.7 Max |
| B | 21.5 Max |
| C | See table |
| D | 3.0 ±0.3 |
| E | 2.3 Min |
| F | 14.5 ±0.5 |
| G | 2.5 Ref. |
| H | 2.4 Ref. |
| J | 4.0 Ref. |
| K | 5.0 Ref. |
| J2 | 4.0 Ref. |
| K2 | 4.0 Ref. |
| L | 14.5 Ref. |
| M | 17.5 Ref. |

PACKING INFORMATION Unit : (mm)



| | |
|----|---------------|
| A | 120(Pcs/Reel) |
| B | 44.5±0.5/0 |
| Ao | 20.8 ± 0.2 |
| Bo | 21.8 ± 0.2 |
| Ko | 12.7 ± 0.2 |
| W | 44 |
| P | 32 |



Typical Pulling Force: 30-130 grams

All test Data is referenced to 25°C ambient.

Typical Heat Rating DC Current would cause an approximately ΔT of 40°C.

Typical Saturation DC Current would cause L_o to drop approximately 30%.

The Part temperature (ambient + ΔT) should not exceed 125°C under worst case operating conditions.

Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions

all effect the part temperature. Part temperature should be verified in the end application.