

CTSFW1365F Series

From .20 μ H to 33 μ H



CHARACTERISTICS

Description: SMD flat wire high current power inductors

Features:

- Magnetic shielded structure, excellent resistance to electromagnetic interference
- Flat wire winding, achieve a low DC resistance
- Lightweight design, save space, suitable for high density SMT

Applications: Low loss, high efficiency, wide application frequency, and application scope

Operating Temperature: -55°C to +150°C

Inductance Tolerance: $\pm 20\%$

Testing: Inductance at 100kHz, 0.1V

Packaging: Tape & Reel

Miscellaneous: RoHS Compliant

Additional Information: Additional electrical & physical information available upon request

Samples available. See website for ordering information.

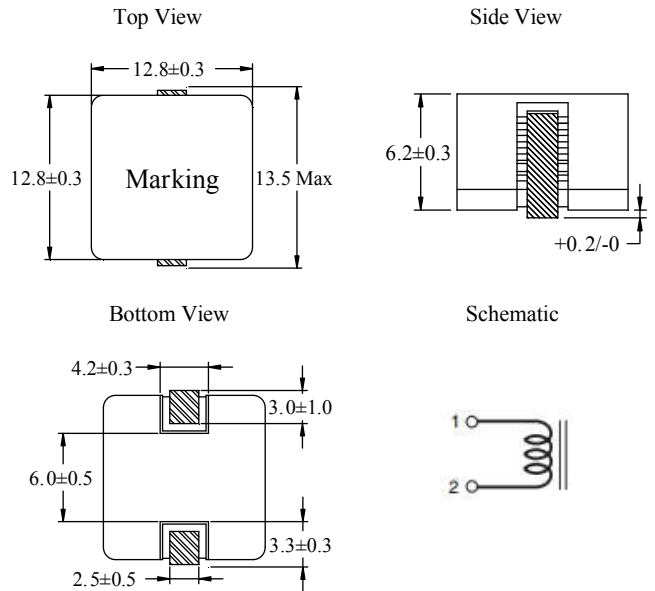
SPECIFICATIONS

*Isat: Value of inductance decrease within 30%
 **Irms: A rise in temperature of core surface is within 50°C

| Part Number | Inductance $\pm 20\%$ (μ H) | DCR Nom.(Max.) (m Ω) | Isat(A) Drop $\leq 30\%$ | Irms(A) Rise $\leq 50^\circ$ C |
|-----------------|----------------------------------|------------------------------|--------------------------|--------------------------------|
| CTSFW1365F-R20M | 0.20 | 0.35(0.40) | 65.00 | 32.00 |
| CTSFW1365F-R47M | 0.47 | 0.67(0.70) | 50.00 | 30.00 |
| CTSFW1365F-R82M | 0.82 | 0.90(1.00) | 35.00 | 27.00 |
| CTSFW1365F-1R3M | 1.30 | 1.80(2.00) | 25.00 | 25.00 |
| CTSFW1365F-2R0M | 2.00 | 2.60(2.90) | 22.00 | 23.00 |
| CTSFW1365F-2R8M | 2.80 | 3.30(3.60) | 17.50 | 20.00 |
| CTSFW1365F-3R7M | 3.70 | 4.90(5.40) | 16.00 | 17.00 |
| CTSFW1365F-4R7M | 4.70 | 7.00(7.70) | 15.00 | 13.00 |
| CTSFW1365F-6R0M | 6.00 | 8.40(9.20) | 14.00 | 12.00 |
| CTSFW1365F-7R3M | 7.30 | 5.90(6.50) | 12.00 | 13.00 |
| CTSFW1365F-9R2M | 9.20 | 7.80(8.60) | 10.50 | 12.00 |
| CTSFW1365F-110M | 11.00 | 9.10(10.00) | 9.50 | 11.00 |
| CTSFW1365F-130M | 13.00 | 11.20(12.30) | 9.00 | 10.00 |
| CTSFW1365F-150M | 15.00 | 14.80(16.30) | 8.00 | 9.00 |
| CTSFW1365F-180M | 18.00 | 22.00(24.20) | 7.50 | 7.50 |
| CTSFW1365F-220M | 22.00 | 24.70(27.20) | 6.50 | 6.00 |
| CTSFW1365F-330M | 33.00 | 30.50(33.60) | 5.50 | 5.50 |

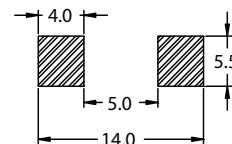
PHYSICAL DIMENSIONS

Unit: mm



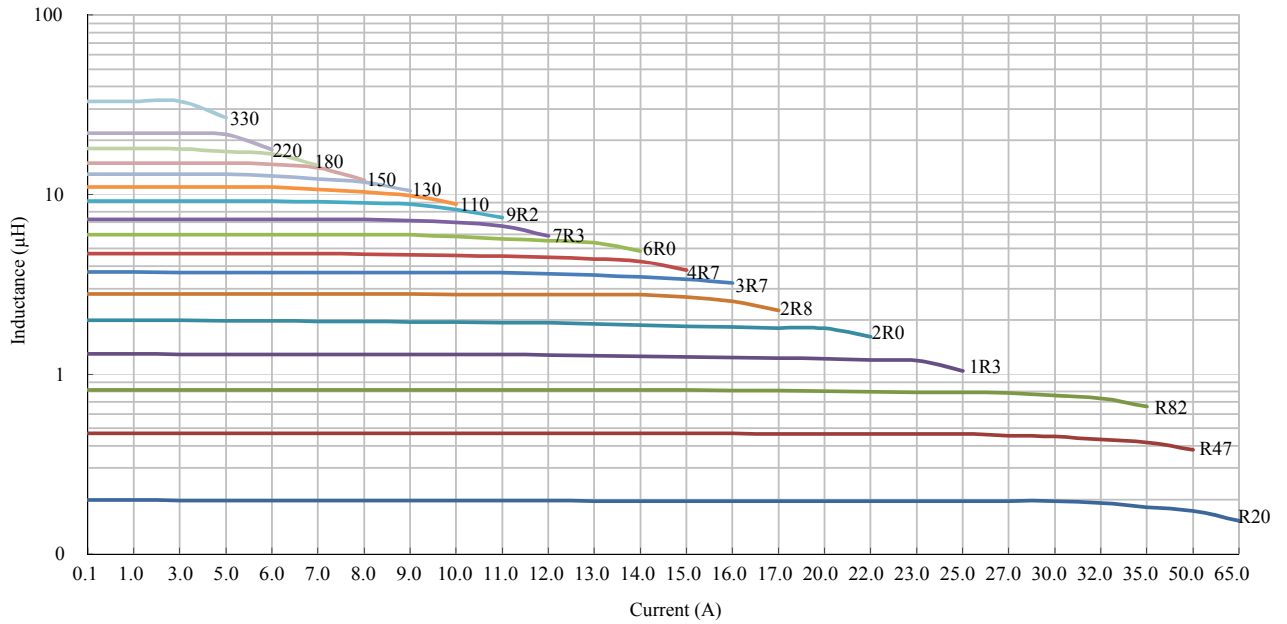
PAD LAYOUT

Unit: mm



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Typical Inductance vs Current Characteristics



Typical Temperature Rise vs Current Characteristics

