

CURRENT SENSE TRANSFORMERS

FIS 1X5 Series



- Current sense transformers provide output feedback to the pulse control circuitry allowing low-cost regulation of switch-mode power supplies
- Fully encapsulated construction
- Isolation primary to secondary: 4000V AC
- 25A maximum primary current, 500 kHz maximum frequency
- Applications: switch-mode power supplies, lighting, switch controls

Electrical Specifications @ 25°C

| Part No. | Prim/Sec Ratio | Sec L (mH MIN) | Sec DCR (Ω MAX) | V x τ (MAX) |
|----------|----------------|----------------|-----------------|-------------|
| FIS105 | 1:50 | 4.7 | 0.5 | 175 μVS |
| FIS115 | 1:100 | 18 | 2.0 | 350 μVS |
| FIS125 | 1:200 | 76 | 4.5 | 700 μVS |
| FIS155 | 1:500 | 470 | 16.0 | 1750 μVS |
| FIS1105 | 1:1000 | 1900 | 50.0 | 3500 μVS |

NOTES:

L: Inductance: (2-1) tested at 10 kHz & 10 mV

Rt (Ω): Recommended Terminating Resistance

V x τ: V = Rt x Is

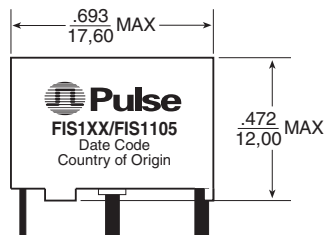
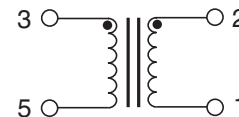
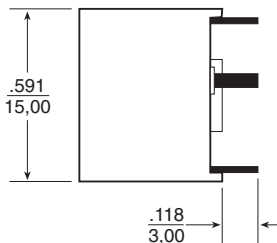
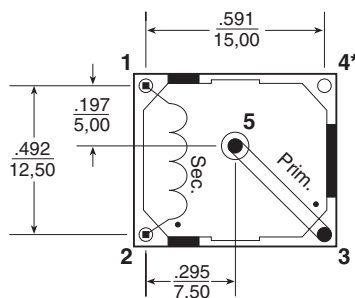
$$\tau = \frac{1}{2F}$$

Is (A): Sec. Current

F(Hz): Frequency

Mechanical

Schematic



- Pins 3 & 5 ∅ 1,2 mm
- Pins 1 & 2 ∩ 0,5 mm
- Stand off

| | | |
|--|-----------------|-----------|
| | FIS105/15/25/55 | FIS1105 |
| Weight | 7.0 grams | 8.0 grams |
| Tray | 30/tray | 34/tray |
| Dimensions: $\frac{\text{Inches}}{\text{mm}}$ | | |
| Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$ | | |

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| 12220 World Trade Drive San Diego, CA 92128 U.S.A. http://www.pulseeng.com TEL: 858 674 8100 FAX: 858 674 8262 | 1 & 2 Huxley Road The Surrey Research Park Guildford, Surrey GU2 5RE United Kingdom TEL: 44 1483 401700 FAX: 44 1483 401701 | Zone Industrielle F-39270 Orgelet France TEL: 33 3 84 35 04 04 FAX: 33 3 84 25 46 41 | 150 Kampong Ampat #07-01/02 KA Centre Singapore 368324 TEL: 65 287 8998 FAX: 65 280 0080 | 3F-4, No. 81, Sec. 1 HsinTai Wu Road Hsi-Chih, Taipei Hsien Taiwan, R.O.C. Tel: 886 2 2698 0228 FAX: 886 2 2698 0948 | 19/F, China United Plaza 1008 Tai Nan West Street Cheung Sha Wan, Kowloon Hong Kong, China TEL: 852 2788 6588 FAX: 852 2776 1055 | |

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