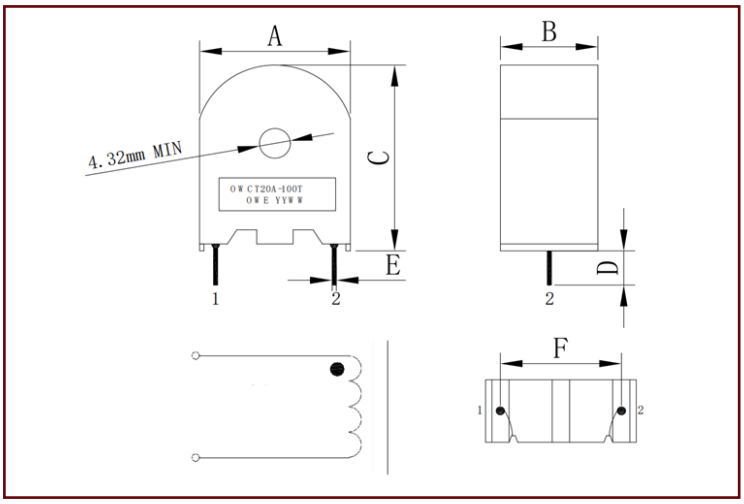
OLE WOLFF

OWCT20AS series

THT 20A CURRENT SENSE



GENERAL SPECIFICATIONS

- Ferrite core
- Current range: 20A
- Turns optional: 50ts, 100ts, 200ts
- Accuracy class: Defined in IEC61869-2, part 2, class optional 1.0
- Frequency: 20kHz to 200kHz
- Operation temp: -40°C to 130°C
- Hi-pot 4000Vrms for 60" and dielectric resistance over 1Gohms at 500Vdc
- Impulse voltage 1.2/5us 5000V optional

FEATURES

- Epoxy encapsulated
- PBT resin UL flame retardant rate 94-V0
- RoHS & REACH compliant
- Excellent quality at a competitive price

APPLICATIONS

- Designed for switching power supply applications
- Supervising the current in circuit

DIMENSIONS OF OWCT20AS SERIES

OW series	A(mm) Max.	B(mm) Max.	C(mm) Max.	D(mm) Ref.	E(mm) Ref.	F(mm) Ref.	ID
OWCT20AS-50T	17.5	11	21	5	1.0	12.7	4.5
OWCT20AS-100T	17.5	11	21	5	1.0	12.7	4.5
OWCT20AS-200T	17.5	11	21	5	1.0	12.7	4.5

ELECTRICAL CHARACTERISTICS OF OWCT20AS SERIES

OW P/N	Ip (Amps)	Turns ratio	DCR (Ω)	RL (Ω)	Inductance		Amp u Sec rating (Max.)	Amp u Sec rating (Max.)
					mH	Test voltage	DC	AC
OWCT20AS-50T	20	1:50	0.7	50	5.0	0.5V 100kHz	150	300
OWCT20AS-100T	20	1:100	1.4	100	20.0	1.0V 100kHz	300	600
OWCT20AS-200T	20	1:200	4.5	200	80.0	2.0V 100kHz	600	1200

NOTE:

1. Maximum ratings are defined under conditions of rated secondary load resistance and a primary winding of one turn.
2. The Amp-microsecond (AμSec.) rating on the primary is equivalent to the Volt-microsecond (VμSec.) rating on the secondary when the secondary is terminated with the rated resistance. This equivalence is defined as the product of a square pulse of current in amperes multiplied by the current pulse width in microseconds.
3. Maximum operating temperature is 105°C, considering both the ambient temperature and the temperature rise.
4. When terminated with the rated terminating resistance, the inductor scale factor is Vout = 1 volt per amp.

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