

THROUGH-HOLE CURRENT SENSING TRANSFORMERS FAACST014-016 SERIES



FEATURES

Low profile, directly to PCB.
PBT 94V0 Case burn-resistant epoxy resin, stable.

OPTIONS

Bulk is standard
Custom design acceptable

COMMON APPLICATIONS

Air-Conditioner Current Control
Protection current transformer
Testing Protection system
Electronical monitoring system

ELECTRICAL CHARACTERISTICS

Performance&Specification for 50/60Hz series

Part Number	Rated primary current(A)	Max primary current(A)	Rated secondary current(mA)	Resistance load (Ohm)	Output ratio (Ω)	Accuracy class
FAACST014	5	12	2.5	1000	2.5	1
FAACST014	5	15	5	100	0.5	1
FAACST015	5	15	2	2000	4.0	1
FAACST015	3	10	1	2500	2.5	1

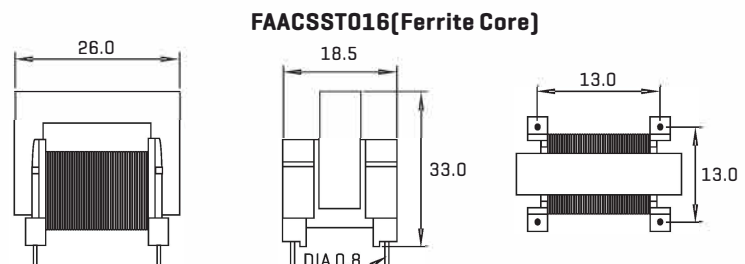
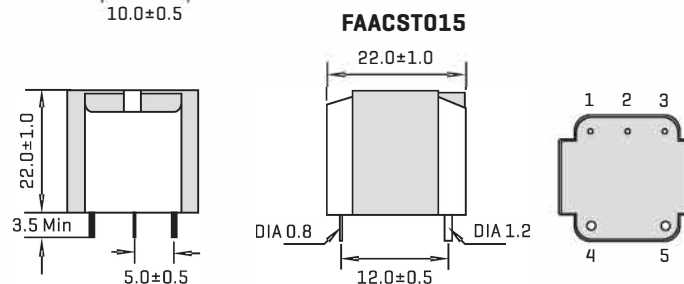
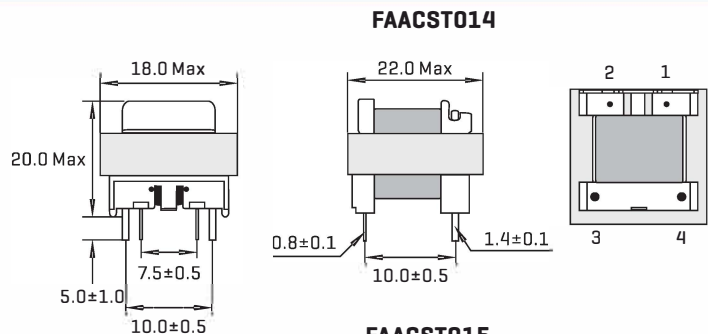
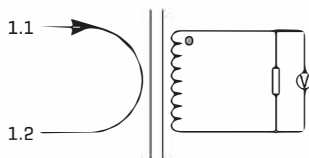
Performance&Specification for High frequency(10KHz~200KHz)

Part Number	Rated primary current(A)	Max primary current(A)	Rated secondary current(mA)	Resistance load (Ohm)	Output ratio (Ω)	Accuracy class
FAACST016	5	20	2	1000	2	2
FAACST016	10	20	5	500	2.5	2

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

- Insulation resistance: 500V DC >100MΩ
- Hi-Pot : 4000V 1mA 60S
- Temperature range: -25°C to +85°C
- Storage Temperature: -40°C to +105°C
- Resistance to soldering heat:260°C for 10 seconds
- Marking: Part number and date code

Note: All specifications subject to change without notice.



ALL DIMENSIONS IN MM

THROUGH-HOLE CURRENT SENSOR TRANSFORMERS FAACST010-013 SERIES



FEATURES

Low profile, directly to PCB.
PBT 94V0 Case burn-resistant epoxy resin, stable.

OPTIONS

Bulk packaging is standard
Custom design available

COMMON APPLICATIONS

AC energy Meter Power transducer RTU
Protection current transformer
AC kilowatt hour meter
Electronical monitoring system

ELECTRICAL CHARACTERISTICS

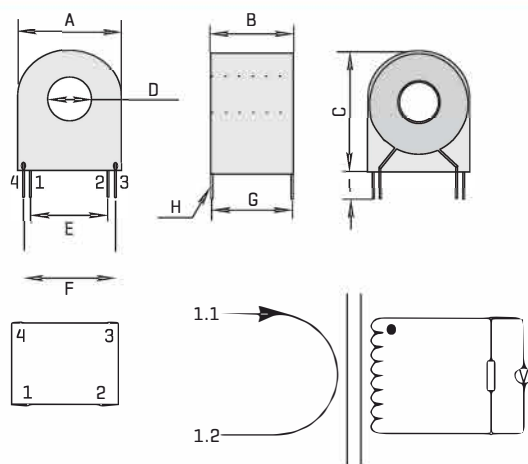
Performance & Specification for High Precision Current Test

Part Number	Rated primary current(A)	Max primary current(A)	Rated secondary current(mA)	Current ratio	Output ratio (Ω)	Accuracy class
FAACST010A/5	5	40	2.5	2000:1	100	0.2,0.5
FAACST010A/10	10	40	4	2500:1	100	0.2,0.5
FAACST010A/20	20	40	10	2000:1	100	0.1,0.2,0.5
FAACST011A/10	10	60	4	2500:1	100	0.1,0.2,0.5
FAACST011A/20	20	60	10	2000:1	100	0.1,0.2,0.5
FAACST011A/40	40	60	20	2000:1	100	0.1,0.2,0.5
FAACST012A/60	60	120	24	2500:1	100	0.1,0.2,0.5
FAACST012A/80	80	120	32	2500:1	100	0.1,0.2,0.5
FAACST012A/120	120	120	48	2500:1	100	0.1,0.2,0.5
FAACST013A/100	100	200	40	2500:1	100	0.1,0.2,0.5
FAACST013A/100	100	200	50	2000:1	100	0.1,0.2,0.5
FAACST013A/200	200	200	80	2500:1	100	0.1,0.2,0.5

Performance & Specification for Protection Precision Current Test

Part Number	Rated primary current(A)	Max primary current(A)	Rated secondary current(mA)	Resistance load (Ohm)	Output ratio (Ω)	Accuracy class
FAACST010B	5	60	5	100	0.5	0.5,1.0
FAACST010B	10	60	10	100	1.0	0.5,1.0
FAACST010B	15	60	15	100	1.5	0.5,1.0
FAACST011B	20	60	20	100	2.0	0.5,1.0
FAACST011B	25	75	25	100	2.5	0.5,1.0
FAACST011B	30	75	30	100	3.0	0.5,1.0
FAACST012B	40	75	40	100	4.0	0.5,1.0
FAACST012B	50	125	50	100	5.0	0.5,1.0
FAACST012B	60	125	60	100	6.0	0.5,1.0
FAACST013B	75	125	75	100	7.5	0.5,1.0
FAACST013B	100	250	100	100	10.0	0.5,1.0
FAACST013B	150	250	150	100	15.0	0.5,1.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:



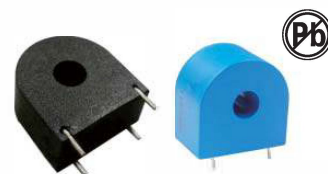
ALL DIMENSIONS IN MM

- Working Frequency range 20Hz-400Hz
- Insulation resistance: 500V DC >100MΩ
- Hi-Pot : 4000V 1mA 60S
- Temperature range: -25°C to +85°C
- Storage Temperature: -40°C to +105°C
- Resistance to soldering heat:260°C for 10 seconds
- Marking: Part number and date code

Note: All specifications subject to change without notice.

	A	B	C	D	E	F	G	H	I
FAACST010	23.5	12.5	25.0	7.0	15.0	18.5	10.5	1.0	6.0
FAACST011	26.0	17.0	29.0	9.0	15.0	18.5	15.0	1.0	6.0
FAACST012	37.0	14.0	39.0	13.0	25.0	32.5	11.0	1.0	6.0
FAACST013	49.0	20.0	54.0	18.5	29.5	37.0	17.5	1.0	6.0

AC CURRENT TRANSFORMER FACT006P-CT102 SERIES



FEATURES :

Low profile, directly to PCB
PBT 94V0 Case
burn-resistant epoxy resin, stable

APPLICATION :

Power Meter Class 0.2, 0.5, and 1.0 for accurate measurement, Indirect and Direct Type
Power Calibrator and Transducer
Street Lighting Control System
Monitoring and Protection Relay
Ground Fault CT or Grounded Neutral Sensor
Current & Power Measurement
High-end Digital Protection Relay
High-end Industrial Power Sensor

CHARACTERISTICS:

Rated Current: 0.1A-200A
Accuracy: 0.1 Class
Phase Shift Change: $\lt; 12^\circ$ during 2%-120% I_b
Linearity: 0.1L, 0.2L
Operation frequency: 20Hz-10KHz
Operation Temperature: -40°C to +80°C
Hi-pot Test between Primary and Secondary: 4KV/1min
Insulation Resistance: 500Mohm[500VDC]

ELECTRICAL CHARACTERISTICS:

Mode No.	Current [A]	Turns Ratio	DC Resistance [ohms]	Inductance [50Hz/0.5V] [H]	FIG
FACT006P-C	6	1:2000	95±15%	160±30%	FIG1
FACT006P-C1	6	1:2500	125±15%	250±30%	FIG1
FACT006P-C2	6	1:1500	53±15%	100±30%	FIG1
FACT010P-C1	10	1:2500	125±15%	250±30%	FIG1
FACT010P-C2	10	1:1500	53±15%	100±40%	FIG1
FACT010P-C6	10	1:2000	95±15%	160±30%	FIG1
FACT020P-C1	20	1:2500	125±15%	250±30%	FIG1
FACT020P-C6	20	1:1000	28±15%	45±40%	FIG1
FACT100P-C1	40	1:2500	125±15%	250±30%	FIG1
FACT100P-C2	40	1:2000	95±15%	160±30%	FIG1
FACT101P2	60	1:2000	95±15%	160±30%	FIG1
FACT006P-B1	6	1:2000	114±20%	238±30%	FIG2
FACT101P	60	1:2000	95±15%	160±30%	FIG3
FACT102-A1	80	1:1000	235±15%	95±30%	FIG4

SHAPE AND DIMENSIONS

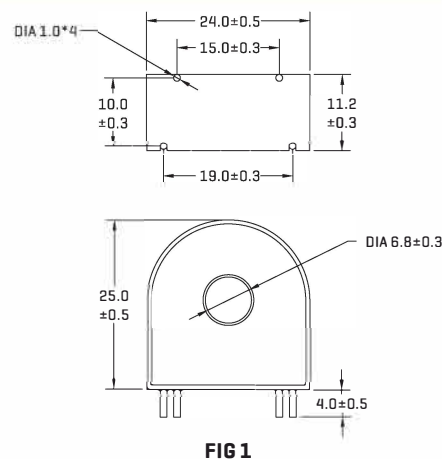


FIG 1

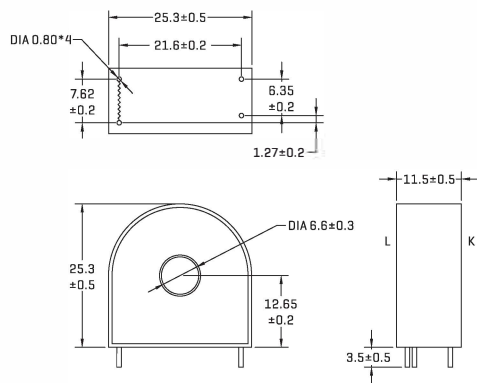


FIG 2

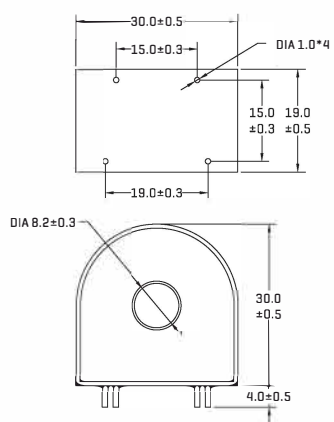


FIG 3

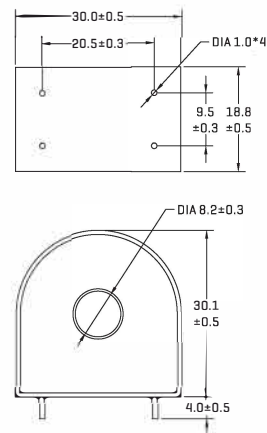


FIG 4

DIMENSIONS:MM

AC CURRENT TRANSFORMER FACT104P-CT105W SERIES



FEATURES:

Low profile, directly to PCB
PBT 94V0 Case
burn-resistant epoxy resin, stable

APPLICATION:

Power Meter Class 0.2, 0.5, and 1.0 for accurate measurement, Indirect and Direct Type
Power Calibrator and Transducer
Street Lighting Control System
Monitoring and Protection Relay
Ground Fault CT or Grounded Neutral Sensor
Current & Power Measurement
High-end Digital Protection Relay
High-end Industrial Power Sensor

CHARACTERISTICS:

Rated Current: 0.1A~200A
Accuracy: 0.1 Class
Phase Shift Change: $\lt; 12^\circ$ during 2%~120% Ib
Linearity: 0.1L, 0.2L
Operation frequency: 20Hz~10KHz
Operation Temperature: -40°C to +80°C
Hi-pot Test between Primary and Secondary: 4KV/1min
Insulation Resistance: 500Mohm[500VDC]

ELECTRICAL CHARACTERISTICS:

Mode No.	Current [A]	Turns Ratio	DC Resistance [ohms]	Inductance [50Hz/0.5V] [H]	FIG
FACT104P	100	1:2500	113±15%	340±30%	FIG1
FACT105P	120	1:2500	113±15%	340±30%	FIG1
FACT006W-C1	6	1:2000	95±15%	160±30%	FIG2
FACT010W-C1	10	1:2500	125±15%	250±30%	FIG2
FACT100W-C	40	1:2000	95±15%	160±30%	FIG2
FACT100W-C1	40	1:2500	125±15%	250±30%	FIG2
FACT020W-C2	20	1:2000	95±15%	160±30%	FIG3
FACT101W-C1	60	1:2000	95±15%	160±30%	FIG3
FACT104W	100	1:2000	113±15%	340±30%	FIG4
FACT105W	120	1:2000	113±15%	340±30%	FIG4

SHAPE AND DIMENSIONS

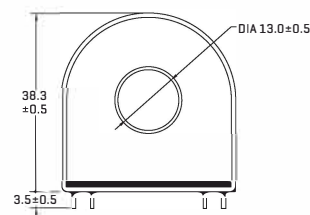
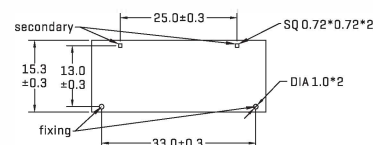


FIG 1

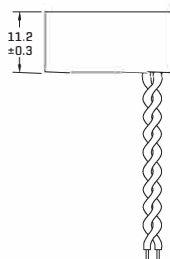
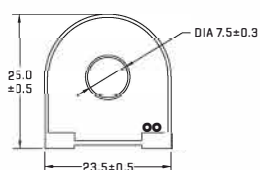


FIG 2

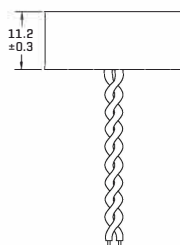
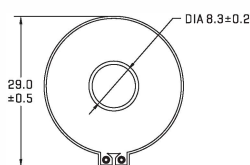


FIG 3

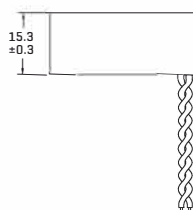
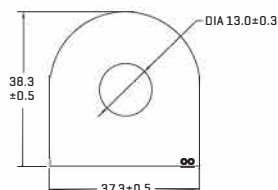


FIG 4

DIMENSIONS:MM

AC CURRENT TRANSFORMER FACT106W2,CT108W1 SERIES



FEATURES :

Low profile, directly to PCB
PBT 94V0 Case
burn-resistant epoxy resin, stable

APPLICATION :

Power Meter Class 0.2, 0.5, and 1.0 for accurate measurement, Indirect and Direct Type
Power Calibrator and Transducer
Street Lighting Control System
Monitoring and Protection Relay
Ground Fault CT or Grounded Neutral Sensor
Current & Power Measurement
High-end Digital Protection Relay
High-end Industrial Power Sensor

CHARACTERISTICS:

Rated Current: 60A-100A
Accuracy: 0.1 Class
Phase Shift Change: < 12' during 2%-120% Ib
Linearity: 0.1L, 0.2L
Operation frequency: 20Hz-10KHz
Operation Temperature: -40°C to +80°C
Hi-pot Test between Primary and Secondary: 4KV/1min
Insulation Resistance: 1000Mohm Min [500VDC]

ELECTRICAL CHARACTERISTICS:

Mode No.	Current [A]	Turns Ratio	DC Resistance [ohms Max]	FIG
FACT106W2	60	1:2000	20	FIG1
FACT108W1	100	1:2500	12.5	FIG2

SHAPE AND DIMENSIONS

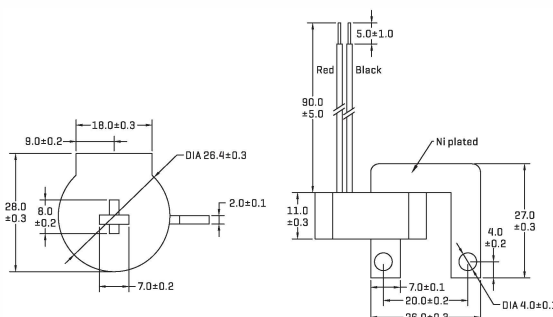


FIG 1

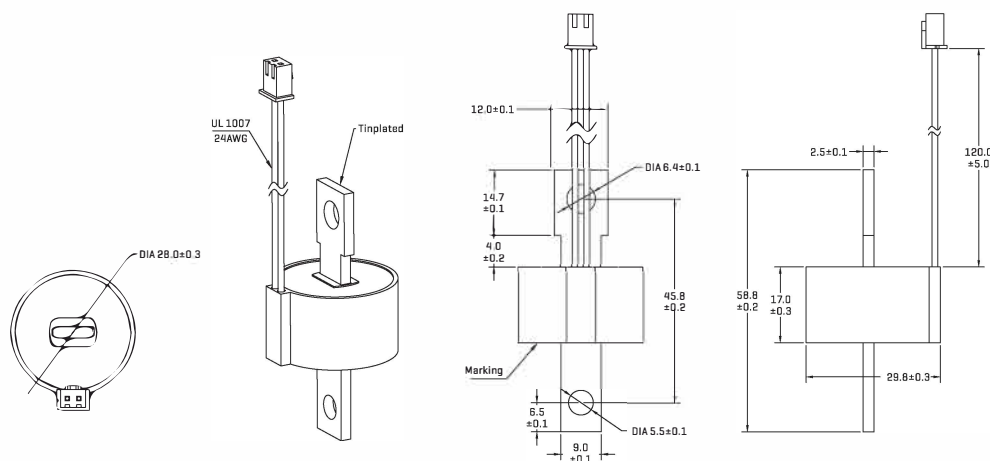
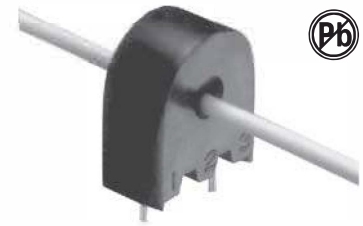


FIG 2

DIMENSIONS:MM

HIGH FREQUENCY CURRENT SENSOR TRANSFORMER FAACST SERIES



FEATURES

Meets UL94-V0 Requirements
Precise Current Sensing

OPTIONS

Bulk Packaging is Standard
Custom Design Available
Thru Hole Available

COMMON APPLICATIONS

SMPS Control Circuits
Current Sensing
Switching power regulators
Pulse current test

STANDARD SPECIFICATIONS @250°C

Part Number	SCHEMATIC	TURNS [±1% Max]	OCL [mH Min]	DCR [ΩMax]	ET [V-μSEC-Min]
FAACST-001	2A	50	5.0	0.7	150
FAACST-002	2A	100	20.0	1.40	300
FAACST-003	2A	200	80.0	4.50	600
FAACST-004	2A	300	180.0	11.0	900
FAACST-005	2B	50CT	5.0	0.7	150
FAACST-006	2B	100CT	20.0	1.40	300
FAACST-007	2B	200CT	80.0	4.50	600
FAACST-008	2B	300CT	180.0	11.0	900
FAACST-E51	3	100	2.0	5.50	120
FAACST-E52	3	125	3.0	6.50	130

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

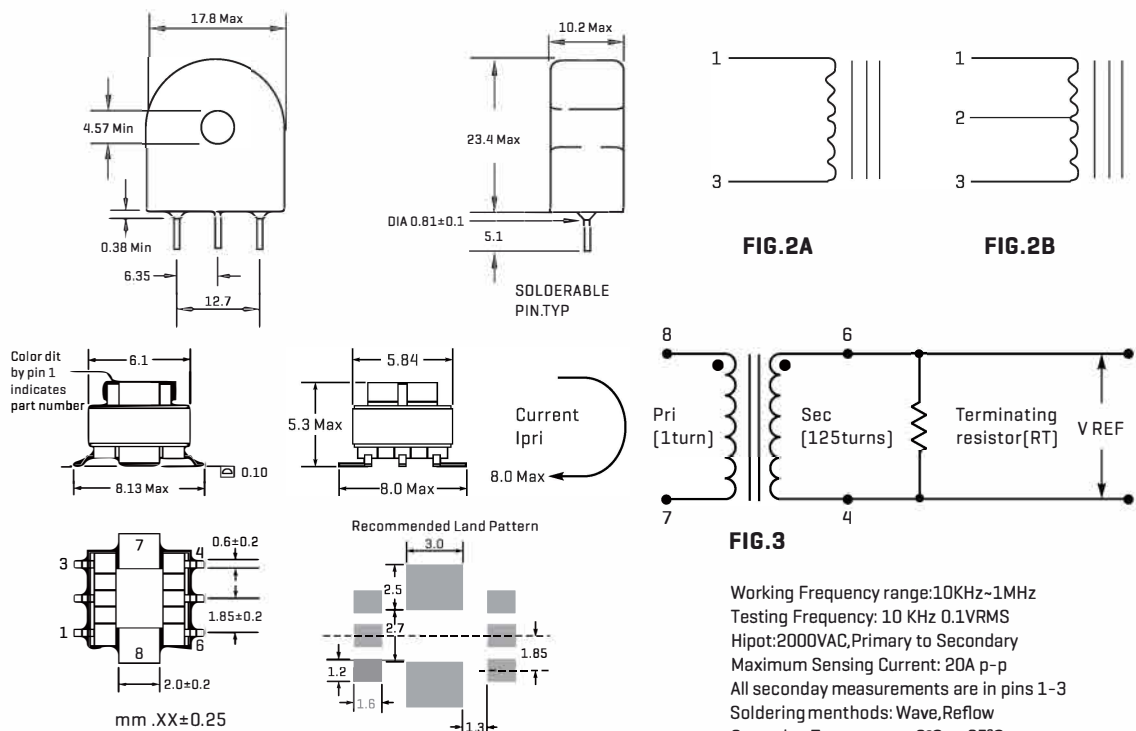


FIG.2A

FIG.2B

FIG.3

Working Frequency range:10KHz-1MHz
Testing Frequency: 10 KHz 0.1VRMS
Hipot:2000VAC,Primary to Secondary
Maximum Sensing Current: 20A p-p
All secondary measurements are in pins 1-3
Soldering methods: Wave,Reflow
Operating Temperature:0°C to 85°C
Storage Temperature:-25°C to 85°C
Note:All specifications subject to change without notice

ALL DIMENSIONS IN MM