

Switching Power Transformers



We manufacture a wide variety of transformers featuring compactness and high reliability for consumer, industrial electronics, communication equipment and other electronic equipment according to their applications. Matching a large variety of ferrite core sizes, vertical and horizontal bobbins of various types are available to meet optimal design.

APPLICATIONS:

Power supply of Telecommunications, AV Products, TV, DVD/VCD, Scetellite receiver, industrial and Consumer products.

FEATURES:

- Compactness and lightweight.
- Low power loss & high magnetic flux density.
- Easy mounting on printed wiring boards.
- High safety using abundant fire-retardant materials.
- High dielectric withstand satisfies safety standards.
- UL Approved insulation material used.
- Excellent efficiency.
- Meet UL1950, IEC950, EN60950, CE etc international safety standard.

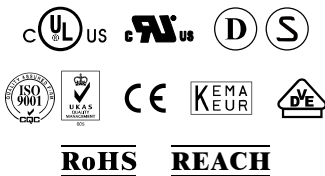
GENERAL CHARACTERISTIC:

Power Capacity: 5Watts to 5000 Watts +
Operating Frequency: 20KHz to 500KHz +

Available Ferrite Core size :

- EE-5 ~ EE70
- EER9 ~ EER-60
- ETD-24 ~ ETD59
- PQ-20 ~ PQ50
- RM4 ~ RM-14
- EFD13 ~ EFD-30

Operating Temperature: up to 155°C



Additional information:

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New approvals may be required.

SH-EE,SH-EI SERIES SWITCHING POWER TRANSFORMER



FEATURES

Possessing of high permeability
High saturation flux density
Low loss, at 100°C the power loss goes bottom

Bulk packaging is standard
Custom design available

Drive transformers
Main transformers
Smoothing chokes
General purpose use



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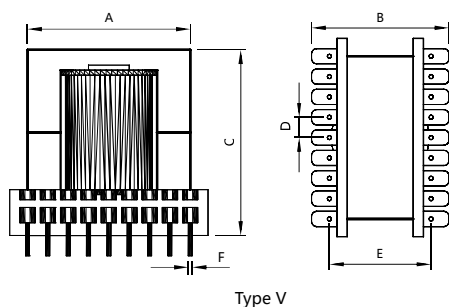
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Part No.	Type	PIN	Dimensions(mm)						Max. output (VA)
			Max A	Max B	Max C	±0.3 D	±0.5 E	±0.1 F	
SH-EI 8.3-A	V	6	8.5	8.5	9.0	2.5	6.0	0.5	3
SH-EE 8.3-B	H	6	8.5	8.5	7.0	2.5	6.0	0.5	3
SH-EE 8.3-C	H	4	8.5	9.5	9.0	5.0	6.8	0.5	3
SH-EI 10-A	V	8	10.5	11.0	11.0	2.5	8.0	0.5	5
SH-EI 10-B	H	8	11.0	13.0	10.5	2.5	10.5	0.5	5
SH-EI 10-C	H	4	10.0	9.5	10.0	5.0	6.8	0.5	5
SH-EI 12.5-A	V	10	13.0	13.0	10.0	2.5	7.5	0.6	8
SH-EE 12-A	H	4	12.5	11.0	12.5	8.0	9.0	0.6	8
SH-EE 13-A	V	10	13.5	13.0	12.0	2.5	8.7	0.6	9
SH-EI 14-A	V	6	14.5	14.5	13.0	3.5	11.0	0.6	15
SH-EE 16-A	V	6	16.5	13.5	13.0	3.0	9.0	0.6	25
SH-EE 16-B	H	8	16.5	14.5	15.0	3.0	11.0	0.6	25
SH-EE 16-C	H	8	16.5	14.5	15.0	3.5	12.0	0.6	25
SH-EE 16-D	V	10	16.5	13.5	14.5	3.25	10.5	0.6	25
SH-EE 16-F	H	10	16.5	19.0	14.0	3.2	15.5	0.8	25
SH-EEL 16-A	V	10	22.0	16.5	30.0	4.0	10.3	0.6	25
SH-EE 19-A	V	6	20.0	18.0	18.0	4.1	14.0	0.7	35
SH-EE 19-B	V	6	20.0	16.0	18.0	4.7	11.6	0.6	35
SH-EE 19-C	H	8	20.0	18.0	16.5	3.8/5	12.5	0.7	35
SH-EEL 19-A	V	8	20.0	20.5	32.0	3.8/4.8	15.0	0.8	35
SH-EEL 19-B	H	6	19.5	32.0	13.0	5	24.2	0.8	35
SH-EEL 19-C	V	10	23.0	16.5	32.0	4	10.0	0.8	35
SH-EE 20-A	H	8	20.5	19.0	13.0	5	15.0	0.8	35
SH-EE 22-A	V	10	22.5	16.5	20.0	4	10.2	0.8	45
SH-EE 22-B	V	8	22.5	17.0	20.0	5	12.4	0.8	45
SH-EE 22-C	H	9	22.5	24.5	16.5	3.5/5	17.2	0.8	45
SH-EE 25-A	V	8	25.5	18.0	22.0	5	12.4	0.8	65
SH-EE 25-B	V	10	26.0	20.5	22.0	5	15.2	0.8	65
SH-EE25-C	H	10	27.0	24.0	24.0	4.0/5	14.6	0.8	65
SH-EEL 25-A	H	14	27.5	33.5	21.0	4.0	27.1	0.8	65

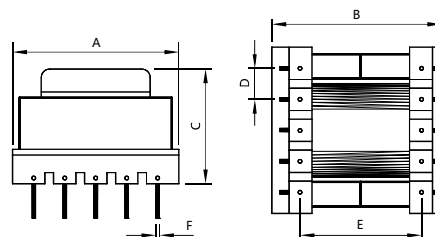
Part No.	Type	PIN	Dimensions(mm)						Max. output (VA)
			Max A	Max B	Max C	±0.3 D	±0.5 E	±0.1 F	
SH-EL 25-B	V	14	27.5	21.0	35.0	4.0	15.0	0.8	65
SH-EI 28-A	V	12	29.5	25.0	24.0	5.0	17.5	0.8	100
SH-EI 28-B	V	10	28.5	25.0	35.0	5.0	20.0	0.8	100
SH-EI 28-C	H	8	28.5	25.0	25.0	5.0	17.5	0.8	100
SH-EI 30-A	V	10	31.0	22.0	26.0	5.0	17.6	0.8	155
SH-EI 30-B	V	12	31.0	26.0	26.0	5.0	20.0	0.8	155
SH-EE 30-A	H	10	30.5	30.0	20.5	5.0	25.0	0.8	155
SH-EE 30-B	H	12	30.5	30.0	20.5	5.0	25.0	0.8	155
SH-EI 33-A	V	14	34.0	28.0	30.0	5.0	22.5	0.8	200
SH-EI 33-B	V	12	34.0	28.0	30.0	5.0	22.5	0.8	200
SH-EI 33-C	V	16	39.0	29.0	30.0	5.0	22.5	0.8	200
SH-EE 35-A	H	12	38.0	30.0	26.0	3.8/5.1	22.0	0.8	215
SH-EE 35-B	V	10	35.5	26.0	28.0	5.0	20.0	0.8	215
SH-EE 35-C	V	14	35.5	26.0	28.0	5.0	20.0	0.8	215
SH-EEL 35-A	V	15	36.5	27.5	50.0	5.0	22.5	0.8	215
SH-EI 35-A	V	12	35.5	28.5	29.0	5/7.5	20.0	1.0	215
SH-EI 40-A	V	12	40.5	29.0	32.0	5.0	22.5	0.8	345
SH-EI 40-B	H	12	40.5	37.0	27.0	5.0	28.2	1.0	345
SH-EI 40-C	V	16	42.0	28.0	35.0	5.0	22.5	0.8	345
SH-EI 40-D	H	14	40.5	35.0	29.0	5.0	25.8	0.8	345
SH-EE 42-A	H	16	44.5	42.0	41.5	5.0	34.0	1.0	400
SH-EE 42-B	H	12	47.0	42.0	39.5	5/7.5	33.0	1.0	400
SH-EE 42-C	V	18	46.0	32.5	46.0	5.0	27.5	1.0	400
SH-EE 42-D	V	12	46.0	42.5	37.0	7.4	36.4	1.0	420
SH-EE 42-E	V	12	43.0	40.5	45.0	5.0	32.5	1.0	420
SH-EE 42-F	H	17	43.0	47.0	45.0	2.5/5	37.7	1.0	420
SH-EE 42-G	V	18	46.0	38.0	47.0	5.0	30.0	1.0	420
SH-EE 50-A	V	18	51.0	40.0	40.0	5.0	30.5	1.0	500
SH-EE 55-A	H	20	56.0	55.0	50.5	5/7.5	45.2	1.0	814

Note: The output power is only for forward model and the frequency at 100kHz

MECHANICAL DRAWING (mm)



Type V



Type H

SH-ER SERIES SWITCHING POWER TRANSFORMER

FEATURES

Center section of the core is round
easily design high-powerswitch transformers
Low leakage

Bulk packaging is standard
Custom design available

Drive transformers
Main transformers
Smoothing chokes
General purpose use



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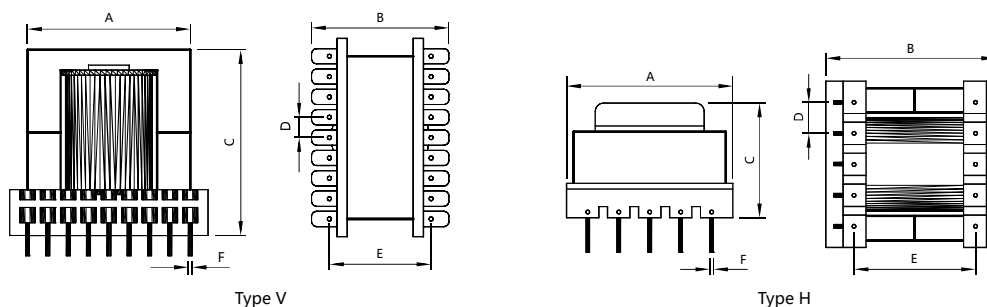


Part No.	Type	PIN	Dimensions(mm)						Max. output (VA)
			Max A	Max B	Max C	±0.3 D	±0.5 E	±0.1 F	
SH-ER 11.5-A	V	8	14	14	12	2.6	9.0	0.6	3
SH-ER 25-A	V	8	27	22	28	5.0	12.5	0.8	87
SH-ER 25-B	V	10	27	22	28	5.0	15.0	0.8	87
SH-ER 28-A	H	20	35	32	25	2.54	28.0	0.5	203
SH-ER 25-B	H	12	31	32	25	5.0	25.0	0.8	203
SH-ER 28-C	V	10	27	25	32	5.0	17.3	0.8	203
SH-ER 28-D	V	12	32	28	32	4.9	22.0	0.6	203
SH-ERL 28-A	V	10	32	25	36	5.0	17.5	0.8	228
SH-ERL 28-B	V	12	32	25	38	5.0	17.5	0.8	228
SH-ERL 28-C	V	12	32	25	36	5.0	20.2	0.8	228
SH-ERL 28-D	V	18	30	25	38	4.0	20.0	0.8	228
SH-ERL 28-E	V	10	30	25	38	5.0	17.5	0.8	228
SH-ERL 28-F	V	14	32	28	38	5.0	20.0	0.8	228
SH-ERL 28-G	H	11	36	38	26	5.0	25.5	0.8	228
SH-ERL 28-H	H	12	32	38	28	5.0	30.4	0.8	228
SH-ER 33-A	V	14	37	31	40	5.0	25.0	1.0	235
SH-ER 33-B	V	14	37	29	40	5.0	22.5	1.0	235
SH-ER 34-A	V	14	36	29	40	5.0	22.3	1.0	240
SH-ER 35-A	V	12	38	30	46	5.0	22.5	1.0	325
SH-ER 35-B	V	14	37	30	44	5.0	22.5	1.0	325
SH-ER 35-C	V	16	41	30	46	5.0	22.55	1.0	325

Part No.	Type	PIN	Dimensions(mm)						Max. output (VA)
			Max A	Max B	Max C	±0.3 D	±0.5 E	±0.1 F	
SH-ER 35-D	H	16	41	45	29	5.0	35.0	1.0	325
SH-ER 35-E	H	12	38	45	27	5.3	37.1	1.0	325
SH-ER 35-F	H	12	45	37	30	5.4	37.1	1.0	325
SH-ER 39-A	V	16	44	32	53	5.0	25.0	1.0	370
SH-ER 39-B	V	14	40	32	54	5.0	25.2	1.0	370
SH-ER 39-C	V	18	45	32	53	5.0	25.0	1.0	370
SH-ER 39-D	H	16	43	45	35	5.0	30.6	1.0	370
SH-ER 39-E	H	16	43	47	35	5.0	35.3	1.0	370
SH-ER 40-A	V	16	42	33	51	5.0	25.2	1.0	421
SH-ER 40-B	V	16	42	34	52	5.0	27.5	1.0	421
SH-ER 40-C	V	12	42	33	48	5.0	25.0	1.0	421
SH-ER 40-D	H	16	42	50	37	5.0	35.2	1.0	421
SH-ER 42-A	V	18	47	33	47	5.0	27.4	1.0	433
SH-ER 42-B	V	14	44	32	49	5.0	24.8	1.0	433
SH-ER 42-C	V	18	47	39	52	5.0	30.2	1.0	509
SH-ER 42-D	H	14	45	45	36	5.0	34.8	1.0	509
SH-ER 49-A	V	22	55	37	62	5.0	27.5	1.0	680
SH-ER 49-B	V	18	52	38	57	5.0	27.5	1.0	680
SH-ER 49-C	V	20	55	41	60	5.0	32.5	1.0	680
SH-ER 53-A	V	18	55	41	55	5.0	32.5	1.0	800
SH-ER 54-B	V	18	60	42	60	5.0	32.0	1.0	850

Note: The output power is only for forward model and the frequency at 100kHz

MECHANICAL DRAWING (mm)



SH-ETD SERIES SWITCHING POWER TRANSFORMER



FEATURES

Center section of the core is round
easily design high-powerswitch transformers
Low leakage

Bulk packaging is standard
Custom design available

Drive transformers
Main transformers
Smoothing chokes
General purpose use



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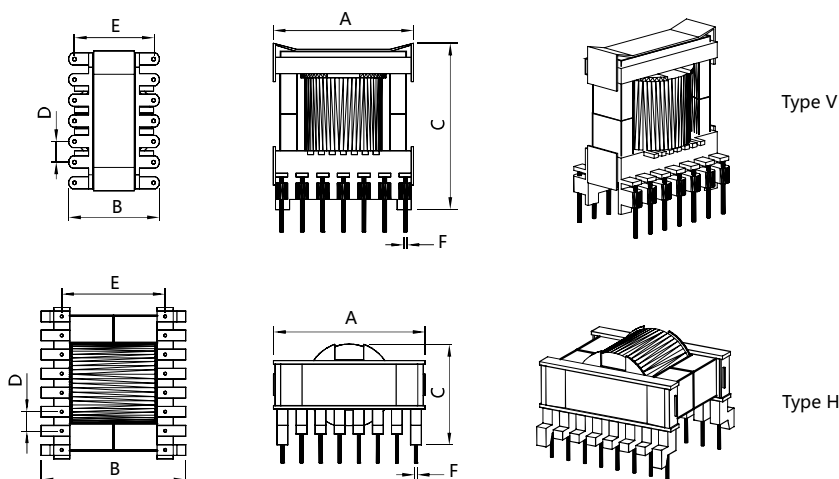
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Part Number	Type	No. of Terminal pins	Dimensions(mm)						Max. output (VA)
			Max A	Max B	Max C	±0.3 D	±0.5 E	±0.1 F	
SH-ETD 24-A	V	12	36.5	25.0	38.0	5.08	17.8	1.1	110
SH-ETD 29-A	H	14	36.0	36.0	25.5	5.0	25.6	0.8	170
SH-ETD 29-B	H	13	37.0	37.0	27.0	5.0	25.8	0.8	170
SH-ETD 29-C	V	12	42.0	24.5	43.0	5.08	20.32	0.8	170
SH-ETD 34-A	V	12	34.5	30.0	37.0	5.0	25.5	1.0	270
SH-ETD 34-B	H	14	41.0	41.0	27.0	5.0	25.5	2.0	270
SH-ETD 34-C	V	14	39.0	28.0	45.0	5.0	22.9	1.0	270
SH-ETD 39-A	V	16	46.0	30.5	49.6	5.0	25.4	1.0	380
SH-ETD 39-B	H	16	45.0	45.0	36.0	5.0	30.2	1.0	380
SH-ETD 44-A	H	18	50.0	51.0	40.0	5.0	35.8	1.0	520
SH-ETD 44-B	V	18	46.0	33.0	51.0	5.0	27.5	1.0	520
SH-ETD 49-A	V	22	55.0	37.0	55.0	5.0	27.5	1.0	680
SH-ETD 49-B	H	20	56.0	55.0	41.0	5.0	40.4	1.0	680
SH-ETD 54-A	H	22	61.0	60.0	47.0	5.0	44.8	1.0	750
SH-ETD 59-A	H	24	68.0	68.0	52.5	5.0	51.0	1.0	900

Note: The output power is only for forward model and the frequency at 100kHz

MECHANICAL DRAWING (mm)



SH-PQ SERIES SWITCHING POWER TRANSFORMER

FEATURES



Design in the flattest shape
Applied in the power: (50W-1kW)100kHz
Cut down installation cubage with multi-pluge and boobins, easily wire connection to meet the request
Low leakage

Bulk packaging is standard
Custom design available

Drive transformers
Main transformers
Smoothing chokes
Switching power supplies
AC-DC, DC-DC converters

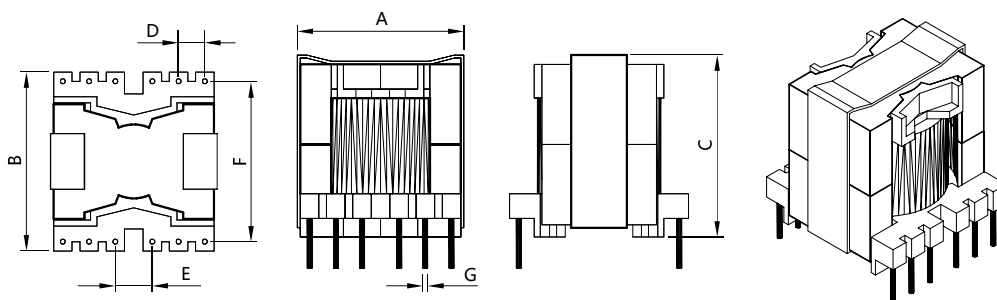


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Part Number	Type	No. of Terminal pins	Max A	Max B	Dimensions(mm)				Max. output (VA)
					Max C	±0.3 D	±0.5 F	±0.1 G	
SH-PQ 2020-A	V	14(6+8)	24.0	24.0	3.8/2.5	5.1	20.3	0.6	92
SH-PQ 2620-A	V	12	28.0	32.0	3.8	7.6	25.4	0.6	170
SH-PQ 2620-B	V	12	28.0	32.0	3.8	7.6	25.4	0.6	170
SH-PQ 2625-A	V	12	28.5	31.0	3.8	7.5	25.5	0.7	195
SH-PQ 3220-A	V	12	33.0	35.0	5.0	7.5	30.0	0.8	232
SH-PQ 3220-B	V	12	33.0	36.0	5.1	7.6	30.5	0.8	232
SH-PQ 3225-A	V	12	35.5	35.0	5.0	7.4	30.0	0.8	280
SH-PQ 3230-A	V	12	33.0	36.0	5.05	7.6	30.3	0.8	331
SH-PQ 3535-A	V	12	37.0	41.0	5.0	10.0	35.0	0.8	452
SH-PQ 4040-A	V	12	41.0	44.0	5.0	15.1	38.0	0.8	596
SH-PQ 5050-A	V	12	52.0	53.0	7.62	15.24	45.72	1.2	1045

Note: The output power is only for forward model and the frequency at 100kHz

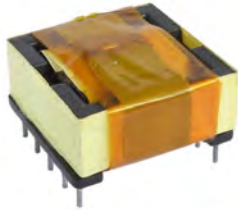
MECHANICAL DRAWING (mm)



Type V

SH-EFD SERIES SWITCHING POWER TRANSFORMER

FEATURES



Horizontal installation
Multi out-put applied
in denseness installation

Bulk packaging is standard
Custom design available

Drive transformers
Main transformers
Smoothing chokes
General purpose use
Switching power supplies
AC-DC, DC-DC converters



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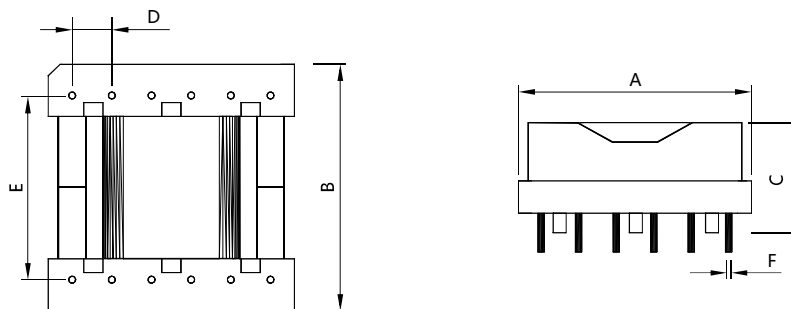
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Part Number	Type	No. of Terminal pins	Max A	Max B	Max C	±0.3 D	±0.5 E	±0.1 F	Max. output (VA)
FATEFD 15-A	H	8	17	18	9.5	3.7	13.7	0.6	5
FATEFD 15-B	H	8	17	18	9.5	3.75	13.75	0.6	5
FATEFD 15-C	H	8	17	18	9.5	3.8	13.7	0.6	5
FATEFD 20-A	H	8	22	23	11.0	5.0	17.5	0.6	18
FATEFD 20-B	H	9	22	23	11.0	5.0	17.5	0.6	18
FATEFD 20-C	H	10	22	26	15.0	3.8	23.8	0.6	18
FATEFD 25-A	H	10	27	28	13.0	5.0	22.45	0.8	45
FATEFD 25-B	H	10	27	28	15.0	5.0	22.5	0.8	45
FATEFD 30-A	H	12	32	33	14.0	5.0	27.4	0.8	70
FATEFD 30-B	H	12	32	36	18.0	5.0	30.0	0.8	70
FATEFD 30-C	H	12	32	37	14.0	5.0	32.0	0.8	70

Note: The output power is only for forward model and the frequency at 100kHz

MECHANICAL DRAWING (mm)



Type H

SCS 74001, 74002 SERIES 1-6W E16 - SINGLE OUTPUT FLYBACK TRANSFORMER

FEATURES

Primary / Secondary Insulation $\geq 4000V$
 Primary Auxiliary Insulation $\geq 1500V$
 Creepage distances
 Primary/secondary $\geq 6mm$

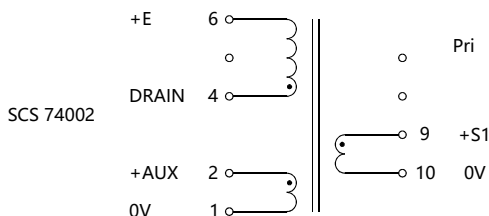
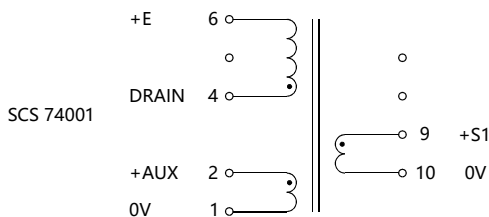
Bulk packaging is standard
 Custom design available

AC-DC converters
 DC-DC converters
 Switch Power supplies
 SMPS: Flyback, Forward and Push-pull
 SMPS: Half Bridge and Full Bridge



TECHNICAL INFORMATION

- Ambient temperature $< 60^{\circ}C$
- Construction confirms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Note: PIN 3 Removed, PCB Drilling Diameter = 1.1mm

ELECTRICAL CHARACTERISTICS AT 25°C

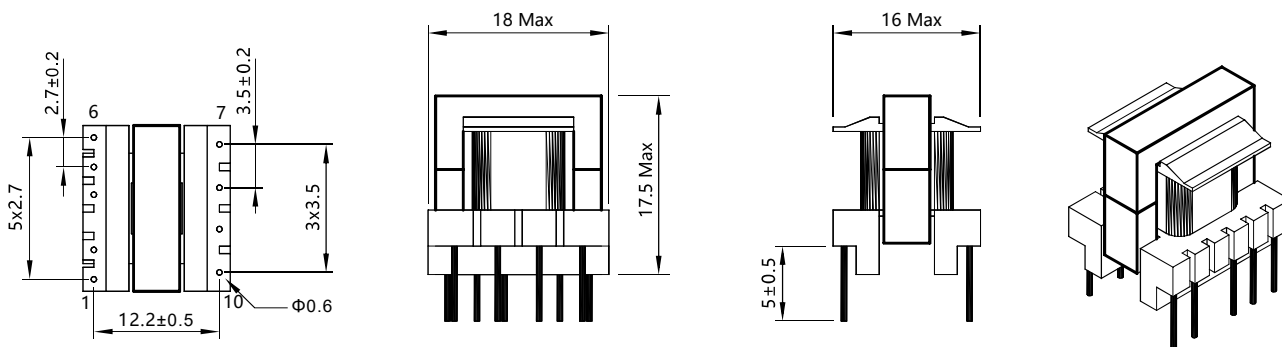
Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Infineon	TDA16831	185-265Vrms	6 W	100 kHz
Motorola	MC33369	85-265Vrms	6 W	100 kHz
Power Integrations	TOP242P	85-265Vrms	6 W	132 kHz
ST Microelectronics	VIPer20	85-265Vrms	6 W	70 kHz
ST Microelectronics	VIPer20	85-265Vrms	3 W	40 kHz

SIZE E16 - SINGLE OUTPUT : 5 or 12V - FLYBACK TRANSFORMER

Part Number	Output Power max	Pins	Turns	Windings		Current max	Inductance (+/-10%)
				Voltage			
SCS 74001	6W	Pri	4-6	138	60-120(VOR)	0.35 Apeak	3000μH
		Aux	2-1	16	8-16Vdc	0.1 Adc	
		S1	9-10	8	3-6Vdc	1.2 Adc	
SCS 74002	6W	Pri	4-6	150	60-120(VOR)	0.38 Apeak	3000μH
		Aux	2-1	22	8.5-17Vdc	0.1 Adc	
		S1	9-10	24	9-18Vdc	0.5 Adc	

Note: Regulation with auxiliary winding

PHYSICAL CHARACTERISTICS(unit:mm)



SCS 74000, 74003 SERIES 1-6W E16 -2 OUTPUT FLYBACK TRANSFORMER



FEATURES

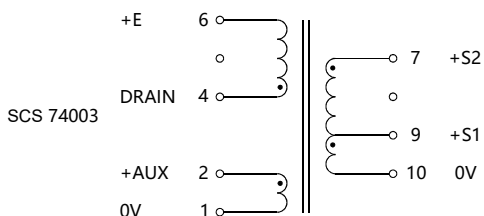
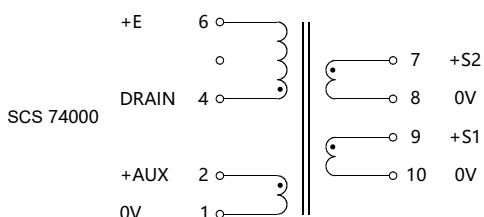
- Primary / Secondary Insulation $\geq 4000V$
- Primary Auxiliary Insulation $\geq 1500V$
- Creepage distances
- Primary/secondary $\geq 6mm$
- Bulk packaging is standard
- Custom design available
- AC-DC converters
- DC-DC converters
- Switch Power supplies
- SMPS: Flyback, Forward and Push-pull
- SMPS: Half Bridge and Full Bridge



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New approvals may be required.

TECHNICAL INFORMATION

- Ambient temperature $< 70^{\circ}C$
- Construction confirms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Note: PIN 3 Removed, PCB Drilling Diameter = 1.1mm

ELECTRICAL CHARACTERISTICS AT 25°C

74000 E16 5w 5/12V

Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Power Integrations	TOP242P	85-265Vrms	5 W	132 kHz
ST Microelectronics	VIPer20	85-265Vrms	4 W	70 kHz

74000 E16 5w 5/12V

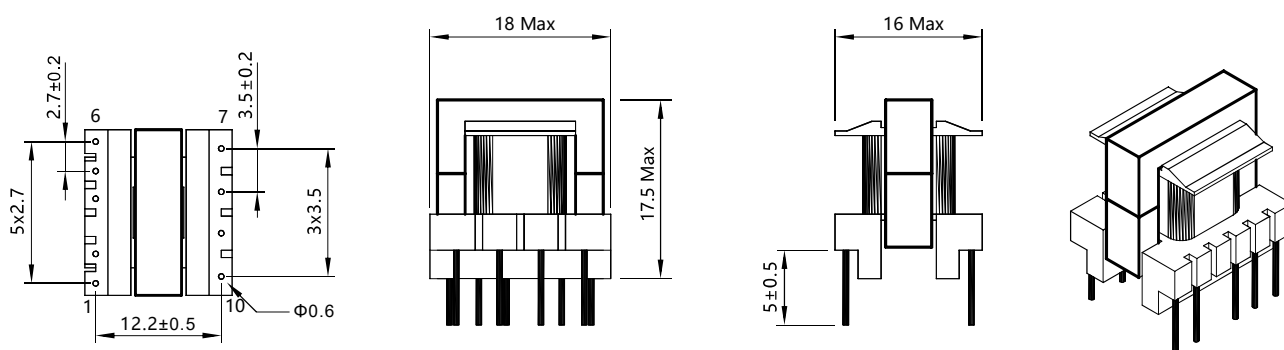
Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Infineon	TDA16831	185-265Vrms	6 W	100 kHz
Motorola	MC33369	85-265Vrms	6 W	100 kHz
Power Integrations	TOP242P	85-265Vrms	5 W	132 kHz
ST Microelectronics	VIPer20	85-265Vrms	6 W	70 kHz
ST Microelectronics	VIPer20	85-265Vrms	3 W	40 kHz

SIZE E16 - SINGLE OUTPUT : 5 or 12V - FLYBACK TRANSFORMER

Part Number	Output Power max	Pins	Windings			Inductance (+/-10%)
			Turns	Voltage	Current max	
SCS 74000	5W	Pri	4-6	138	62-130(VOR)	0.27Apeak
		Aux	2-1	16	7-14Vdc	0.1Adc
		S1	9-10	8	3.3-7Vdc	1.2Adc
		S2	7-8	19	8-17Vdc	0.4Adc
SCS 74003	5W	Pri	4-6	120	55-115(VOR)	0.3Apeak
		Aux	2-1	17	8-16Vdc	0.1Adc
		S1	9-10	5	2-4Vdc	0.8Adc
		S2	7-10	7	3-6Vdc	1.2Adc

Note: Regulation with auxiliary winding

PHYSICAL CHARACTERISTICS(unit:mm)



SCS 74090,74091 SERIES 1-9W E16 -SINGLE OUTPUT FLYBACK TRANSFORMERS



FEATURES

Primary / Secondary Insulation $\geq 4000V$
 Creepage distances
 Primary/secondary $\geq 6mm$

Bulk packaging is standard
 Custom design available

AC-DC converters
 DC-DC converters
 Switch Power supplies
 SMPS: Flyback, Forward and Push-pull
 SMPS: Half Bridge and Full Bridge



Additional information:

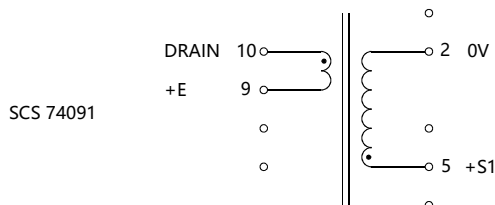
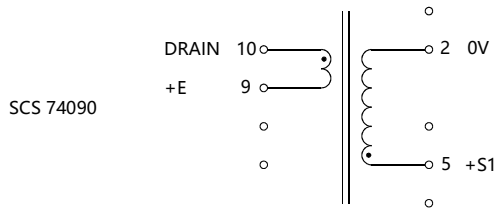
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TECHNICAL INFORMATION

- Ambient temperature $< 85^{\circ}C$
- Construction confirms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



ELECTRICAL CHARACTERISTICS AT 25°C

74090

Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Power Integrations	TNY254	85-265Vrms	1.5W	44kHz

74091

Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Power Integrations	TNY254	85-265Vrms	1.5W	44kHz

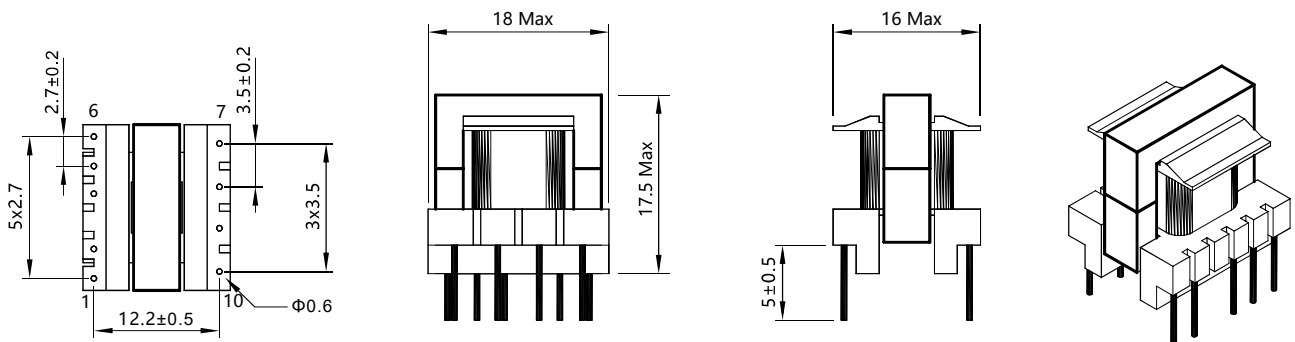
SIZE E16 - SINGLE OUTPUT : 5 or 12V - FLYBACK TRANSFORMER

Part Number	Output Power max	Windings					
		Pins	Turns	Voltage	Current max	Inductance ($\pm 10\%$)	
SCS 74090	1.5W	Pri	10-9	228	50-95(VOR)	0.28 Apeak	6000 μ H
		S1	5-2	16	3.3-6Vdc	0.4 Adc	
SCS 74091	1.5W	Pri	10-9	228	65-130(VOR)	0.28 Apeak	6000 μ H
		S1	5-2	28	7.5-15Vdc	0.2 Adc	

Note: PIN 3 Removed, PCB Drilling Diameter = 1.1mm

Note: Regulation with auxiliary winding

PHYSICAL CHARACTERISTICS(unit:mm)



SCS 74092,74093 SERIES 1-9W E16 -SINGLE OUTPUT FLYBACK TRANSFORMERS



FEATURES

- Primary / Secondary Insulation $\geq 4000V$
- Creepage distances
- Primary/secondary $\geq 6mm$
- Bulk packaging is standard
- Custom design available
- AC-DC converters
- DC-DC converters
- Switch Power supplies
- SMPS: Flyback, Forward and Push-pull
- SMPS: Half Bridge and Full Bridge



Additional information:

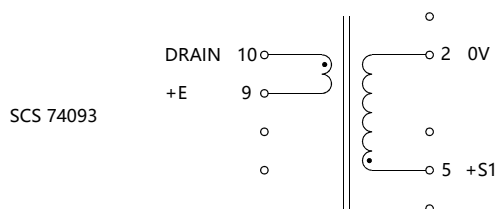
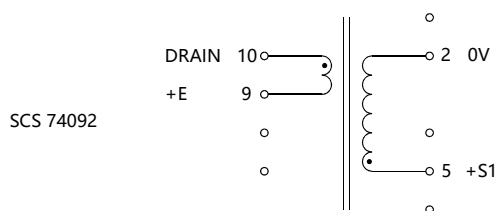
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TECHNICAL INFORMATION

- Ambient temperature $< 70^{\circ}C$
- Construction confirms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Note: PIN 3 Removed, PCB Drilling Diameter = 1.1mm

ELECTRICAL CHARACTERISTICS AT 25°C

74092				
Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Power Integrations	TNY254	85-265Vrms	3.1W	44kHz

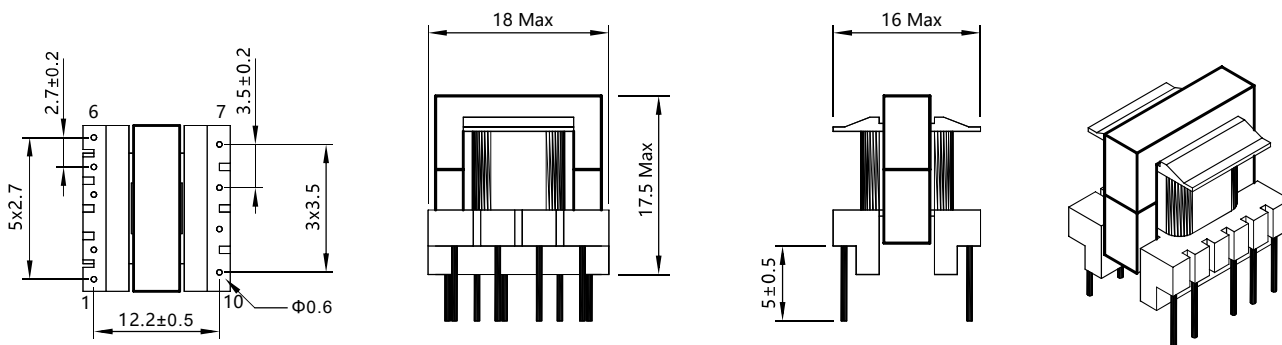
74093				
Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Power Integrations	TNY254	85-265Vrms	3.1W	44kHz

SIZE E16 - SINGLE OUTPUT : 5 or 12V - FLYBACK TRANSFORMER

Part Number	Output Power max	Windings				
		Pins	Turns	Voltage	Current max	Inductance (+/-10%)
SCS 74092	3.1W	Pri 10-9	191	55-100(VOR)	0.34Apeak	4200 μ H
		S1 5-2	13	3.3-6Vdc	0.9Aadc	
SCS 74093	3.1W	Pri 10-9	191	65-125(VOR)	0.34Apeak	4200 μ H
		S1 5-2	24	7.5-15Vdc	0.4Aadc	

Note: Regulation with auxiliary winding

PHYSICAL CHARACTERISTICS(unit:mm)



SCS 74094, 74095 SERIES 1-9W E16 -SINGLE OUTPUT FLYBACK TRANSFORMERS

FEATURES

Primary / Secondary Insulation $\geq 4000V$
 Creepage distances
 Primary/secondary $\geq 6mm$

Bulk packaging is standard
 Custom design available

AC-DC converters
 DC-DC converters
 Switch Power supplies
 SMPS: Flyback, Forward and Push-pull
 SMPS: Half Bridge and Full Bridge

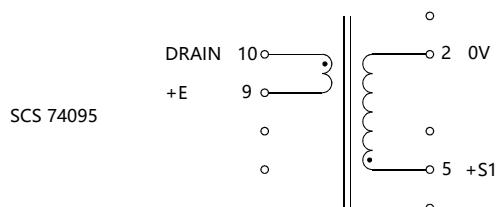
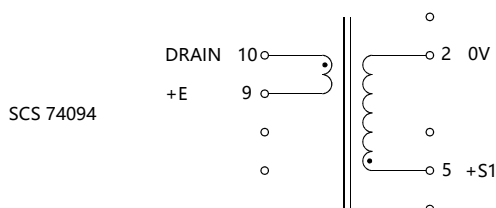


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TECHNICAL INFORMATION

- Ambient temperature $< 60^{\circ}C$
- Construction confirms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



ELECTRICAL CHARACTERISTICS AT 25°C

74094				
Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Power Integrations	TNY255	85-265Vrms	4.2 w	44 kHz
Power Integrations	TNY264	85-265Vrms	5 w	132 kHz
Power Integrations	TNY266	85-265Vrms	9 w	132 kHz

74095				
Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Power Integrations	TNY255	85-265Vrms	5 w	44 kHz
Power Integrations	TNY264	85-265Vrms	5 w	132 kHz
Power Integrations	TNY266	85-265Vrms	9 w	132 kHz

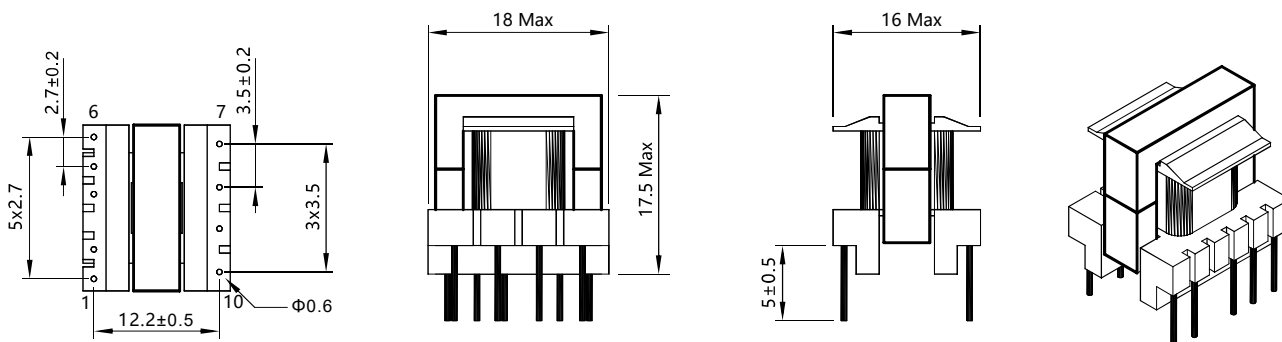
SIZE E16 - SINGLE OUTPUT : 5 or 12V TRANSFORMER FOR TINYSWITCH

Part Number	Output Power max	Pins	Windings			Current max	Inductance (+/-10%)
			Turns	Voltage			
SCS 74094	9W	Pri	10-9	135	55-100(VOR)	0.48Apeak	2100μH
		S1	5-2	9	3.3-6Vdc		
SCS 74095	9W	Pri	10-9	135	65-125(VOR)	0.48Apeak	2100μH
		S1	5-2	17	7.5-15Vdc		

Note: PIN 3 Removed, PCB Drilling Diameter = 1.1mm

Note: Regulation with auxiliary winding

PHYSICAL CHARACTERISTICS(unit:mm)



SCS 74010 SERIES 6-12W E16 -2 OUTPUT FLYBACK TRANSFORMERS



FEATURES

Primary / Secondary Insulation $\geq 4000V$
 Primary Auxiliary Insulation $\geq 1500V$
 Creepage distances
 Primary/secondary $\geq 6mm$

Bulk packaging is standard
 Custom design available

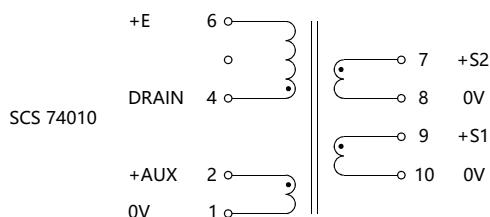
AC-DC converters
 DC-DC converters
 Switch Power supplies
 SMPS: Flyback, Forward and Push-pull
 SMPS: Half Bridge and Full Bridge



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TECHNICAL INFORMATION

- Ambient temperature $< 60^{\circ}C$
- Construction confirms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Note: PIN 3 Removed, PCB Drilling Diameter = 1.1mm

ELECTRICAL CHARACTERISTICS AT 25°C

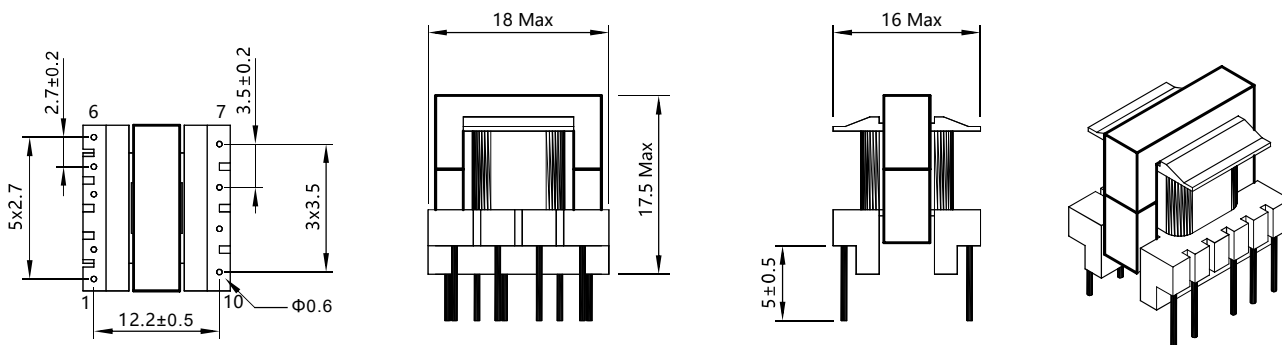
Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Fairchild	KA5H0165RN	185-265Vrms	10 w	100 kHz
Fairchild	KA5L0165R	85-265Vrms	7 w	50 kHz
Infineon	TDA16831	92-265Vrms	7.5 w	100 kHz
Infineon	TDA16831	185-265Vrms	10 w	100 kHz
Motorola	MC33369	85-265Vrms	8 w	100 kHz
Motorola	MC33369	185-265Vrms	10 w	100 kHz
Power Integrations	TNY267	185-265Vrms	12 w	132 kHz
Power Integrations	TOP242P	85-265Vrms	10 w	132 kHz
Power Integrations	TOP242P	185-265Vrms	12 w	132 kHz
Power Integrations	TOP242P	85-265Vrms	10 w	132 kHz
ST Microelectronics	VIPer20	85-265Vrms	8 w	70 kHz
ST Microelectronics	VIPer20	185-265Vrms	10 w	70 kHz

SIZE E16 - 2 OUTPUTS : 5 & 12V - FLYBACK TRANSFORMER

Part Number	Output Power max	Windings					
		Pins	Turns	Voltage	Current max	Inductance (+/-10%)	
SCS 74010	12W	Pri	4-6	120	60-125(VOR)	0.55Apeak	1660μH
		Aux	2-1	14	7-14Vdc	0.1 Adc	
		S1	9-10	7	3.3-7Vdc	2 Adc	
		S2	7-8	17	8-17Vdc	1 Adc	

Note: Regulation with auxiliary winding

PHYSICAL CHARACTERISTICS(unit:mm)



SCS 74014 SERIES 6-12W E16 -2 OUTPUT FLYBACK TRANSFORMERS

FEATURES

Primary / Secondary Insulation $\geq 4000V$
 Creepage distances
 Primary/secondary $\geq 6mm$

Bulk packaging is standard
 Custom design available

AC-DC converters
 DC-DC converters
 Switch Power supplies
 SMPS: Flyback, Forward and Push-pull
 SMPS: Half Bridge and Full Bridge



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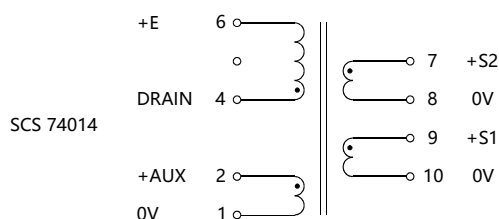
TECHNICAL INFORMATION

- Ambient temperature $< 50^{\circ}C$
- Construction confirms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94-VO listed materials
- Typical outputs : + 24V 0.5A with S1 - S2 in parallel
- + 48V 0.25A with S1 - S2 in series (8-9 connected)
- + 15V / - 15V 0.4A with pins 8-9 connected to 0V

ELECTRICAL CHARACTERISTICS AT 25°C

Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Power Integrations	TNY266	185-265Vrms	12 w	132 kHz
Power Integrations	TNY266	85-265Vrms	8 w	132 kHz
Power Integrations	TNY242P	185-265Vrms	12 w	132 kHz
Power Integrations	TNY242P	85-265Vrms	8 w	132 kHz

SIZE E16 - 2 OUTPUTS : 5 & 12V - FLYBACK TRANSFORMER

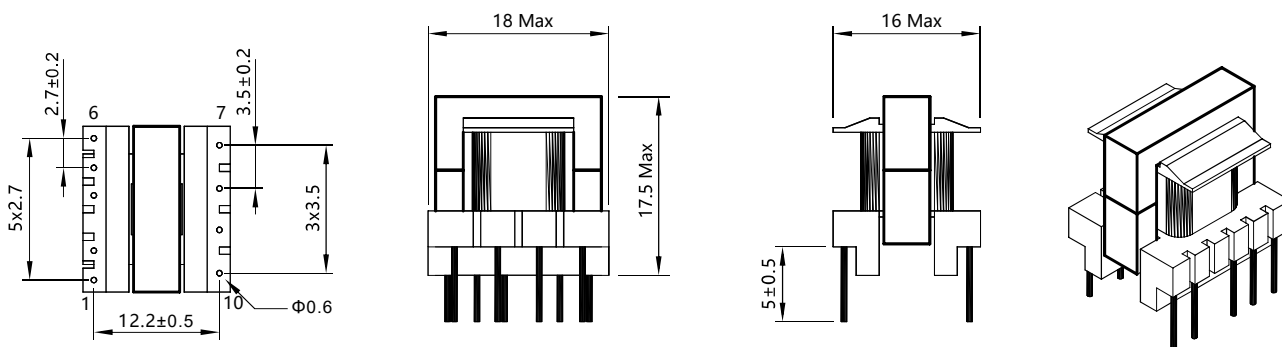


Part Number	Output Power max	Windings			Current max	Inductance (+/-10%)
		Pins	Turns	Voltage		
SCS 74014	12W	Pri	4-6	120	70-140(VOR)	0.5 Apeak
		Aux	2-1	17	9-18 Vdc	0.2 Adc
		S1	9-10	27	15-30 Vdc	0.4 Adc
		S2	7-8	27	15-30 Vdc	0.4 Adc

Note: PIN 3 Removed, PCB Drilling Diameter = 1.1mm

Note: Regulation with auxiliary winding

PHYSICAL CHARACTERISTICS(unit:mm)



SCS 74015 SERIES 6-12W E16 -3 OUTPUT FLYBACK TRANSFORMERS



FEATURES

Primary / Secondary Insulation $\geq 4000V$
 Creepage distances
 Primary/secondary $\geq 6mm$

Bulk packaging is standard
 Custom design available

AC-DC converters
 DC-DC converters
 Switch Power supplies
 SMPS: Flyback, Forward and Push-pull
 SMPS: Half Bridge and Full Bridge



Additional information:

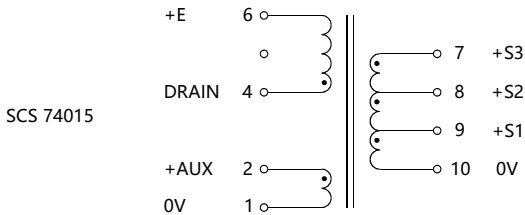
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TECHNICAL INFORMATION

- Ambient temperature $< 50^{\circ}C$
- Construction confirms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94-VO listed materials



Note: PIN 3 Removed, PCB Drilling Diameter = 1.1mm

ELECTRICAL CHARACTERISTICS AT 25°C

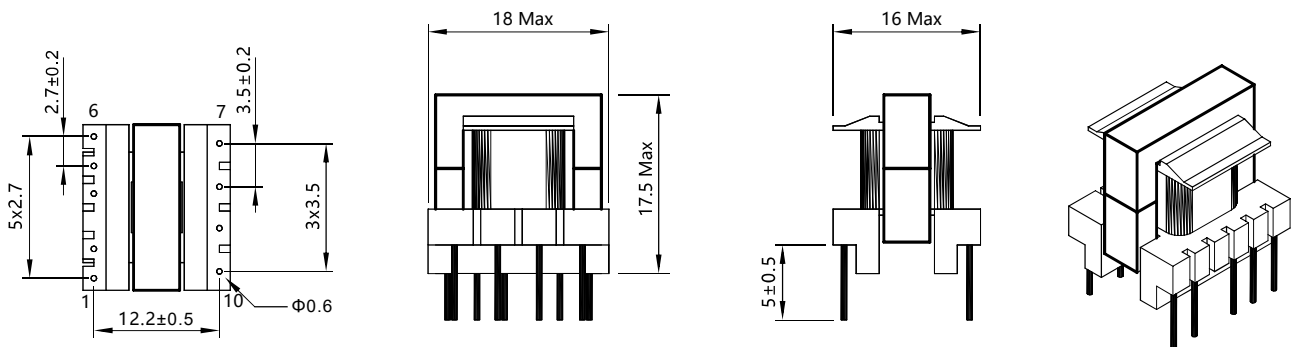
Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Power Integrations	TNY266	185-265Vrms	10 w	132 kHz
Power Integrations	TNY266	85-265Vrms	8 w	132 kHz
Power Integrations	TNY242P	185-265Vrms	12 w	132 kHz
Power Integrations	TNY242P	85-265Vrms	9 w	132 kHz

SIZE E16 - 3 OUTPUTS : 5 & 12V - FLYBACK TRANSFORMER

Part Number	Output Power max	Pins	Turns	Windings			
				Voltage	Current max	Inductance (+/-10%)	
SCS 74015	12W	Pri	4-6	120	110(VOR)	0.5 Apeak	
		Aux	2-1	14	12 Vdc	0.2 Adc	
		S1	9-10	6	5 Vdc	1.5 Adc	1800μH
		S2	8-10	17	15 Vdc	0.6 Adc	
		S3	7-10	27	24 Vdc	0.4 Adc	

Note: Regulation with auxiliary winding

PHYSICAL CHARACTERISTICS(unit:mm)



SCS 74020 SERIES 10-18W EL19 -2 OUTPUT FLYBACK TRANSFORMERS

FEATURES

Primary / Secondary Insulation $\geq 4000V$
 Creepage distances
 Primary/secondary $\geq 6mm$

Bulk packaging is standard
 Custom design available

AC-DC converters
 DC-DC converters
 Switch Power supplies
 FAPS: Flyback, Forward and Push-pull
 FAPS: Half Bridge and Full Bridge



Additional information:

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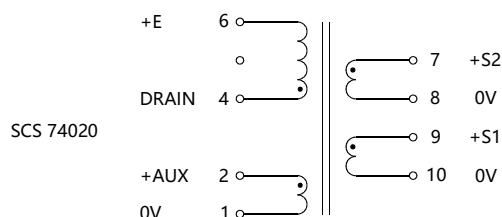
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TECHNICAL INFORMATION

- Ambient temperature $< 50^{\circ}C$
- Construction confirms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94-VO listed materials



ELECTRICAL CHARACTERISTICS AT 25°C

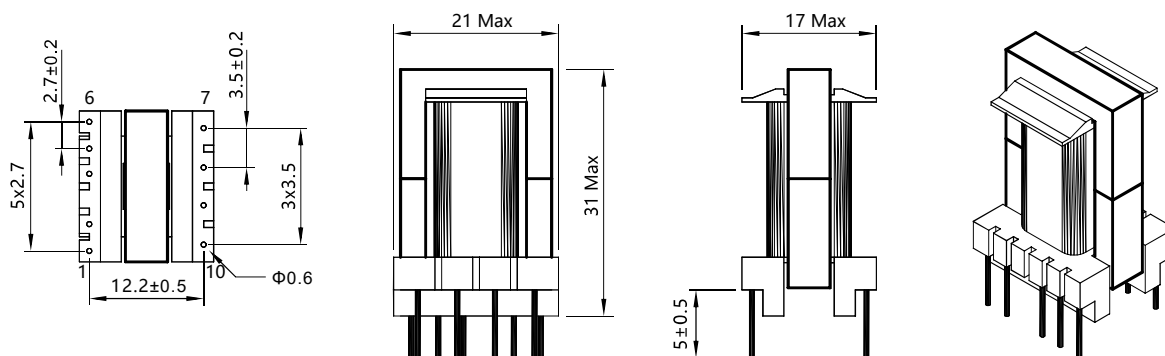
Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Power Integrations	TNY268	185-265Vrms	18 w	132 kHz
Power Integrations	TOP243P	185-265Vrms	18 w	132 kHz
Power Integrations	TOP243P	85-265Vrms	12 w	132 kHz
ST Microelectronics	VIPer20	85-265Vrms	10 w	100 kHz
ST Microelectronics	VIPer20	185-265Vrms	12 w	100 kHz
ST Microelectronics	VIPer50	185-265Vrms	16 w	100 kHz
Motorola	MC33370	185-265Vrms	16 w	100 kHz
Infineon	TDA16832	185-265Vrms	16 w	70 kHz

SIZE EL19 - 2 OUTPUTS : 5 & 12V - FLYBACK TRANSFORMER

Part Number	Output Power max	Pins	Turns	Windings			
				Voltage	Current max	Inductance (+/-10%)	
SCS 74020	18W	Pri	4-6	108	65-130(VOR)	0.8 Apeak	1250 μ H
		Aux	2-1	12	7-14 Vdc	0.1 Adc	
		S1	9-10	6	3.3-7 Vdc	3 Adc	
		S2	7-8	14	8-16.5 Vdc	1.4 Adc	

Note: Regulation with auxiliary winding

PHYSICAL CHARACTERISTICS(unit:mm)



SCS 74021 SERIES 10-18W EL19 -2 OUTPUT FLYBACK TRANSFORMERS



FEATURES

Primary / Secondary Insulation $\geq 4000V$
 Primary Auxiliary Insulation 1500V
 Creepage distances
 Primary/secondary $\geq 6mm$

Bulk packaging is standard
 Custom design available

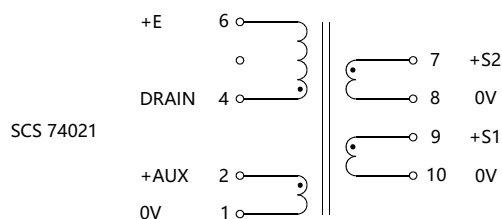
AC-DC converters
 DC-DC converters
 Switch Power supplies
 FAPS: Flyback, Forward and Push-pull
 FAPS: Half Bridge and Full Bridge



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TECHNICAL INFORMATION

- Ambient temperature $< 50^{\circ}C$
- Construction confirms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94-VO listed materials



Note: PIN 3 Removed, PCB Drilling Diameter = 1.1mm

ELECTRICAL CHARACTERISTICS AT 25°C

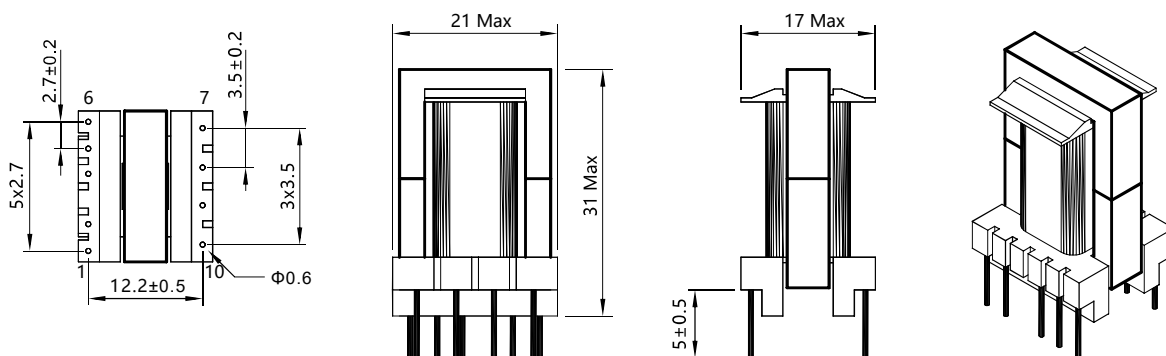
Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Power Integrations	TOP243Y	185-265Vrms	18 w	132kHz
Power Integrations	TOP243Y	85-265Vrms	12 w	66/132kHz
ST Microelectronics	VIPer50	85-265Vrms	13 w	70kHz
Motorola	MC33370	85-265Vrms	13 w	100kHz
Infineon	TDA16831	92-265Vrms	10 w	100kHz

SIZE EL19 - 2 OUTPUTS : 5 & 12V - FLYBACK TRANSFORMER

Part Number	Output Power max	Windings				
		Pins	Turns	Voltage	Current max	Inductance (+/-10%)
SCS 74021	18W	Pri	4-6	108	65-130(VOR)	1.1 Apeak
		Aux	2-1	12	7-14 Vdc	0.1 Adc
		S1	9-10	6	3.3-7 Vdc	3 Adc
		S2	7-8	14	8-16.5 Vdc	1.4 Adc

Note: Regulation with auxiliary winding

PHYSICAL CHARACTERISTICS(unit:mm)



SCS 74023 SERIES 10-18W EL19 -5 OUTPUT FLYBACK TRANSFORMERS



FEATURES

Primary / Secondary Insulation $\geq 4000V$
 Primary Auxiliary Insulation 1500V
 Creepage distances
 Primary/secondary $\geq 6mm$

Bulk packaging is standard
 Custom design available

AC-DC converters
 DC-DC converters
 Switch Power supplies
 FAPS: Flyback, Forward and Push-pull
 FAPS: Half Bridge and Full Bridge



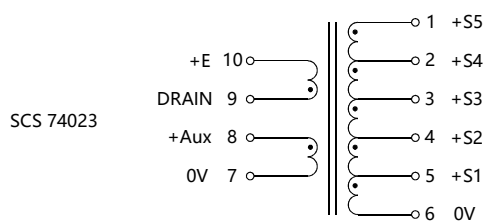
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TECHNICAL INFORMATION

- Ambient temperature $< 60^{\circ}C$
- Construction confirms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94-VO listed materials

ELECTRICAL CHARACTERISTICS AT 25°C

Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Power Integrations	TOP243P	185-265Vrms	16 w	132 kHz
Power Integrations	TOP243P	85-265Vrms	12 w	132 kHz



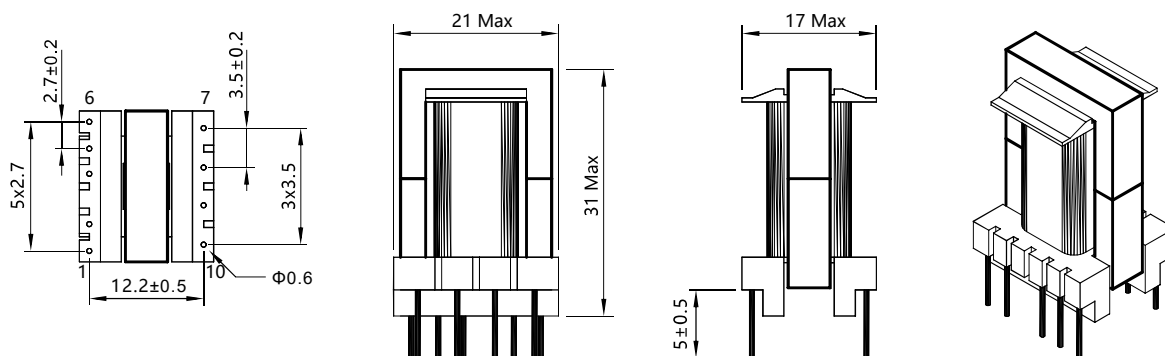
Note: PIN 3 Removed, PCB Drilling Diameter = 1.1mm

SIZE EL19 - 5 OUTPUTS : 3.3/5/12/18/30v - FLYBACK TRANSFORMER

Part Number	Output Power max	Pins	Turns	Windings			
				Voltage	Current max	Inductance (+/-10%)	
SCS 74023	16W	Pri	9-10	120	110 (VOR)	0.85 Apeak	
		Aux	8-7	17	15 Vdc	0.2 Adc	
		S1	5-6	4	3.3 Vdc	2 Adc	
		S2	4-6	6	5 Vdc	Sum S1+S2	1250μH
		S3	3-6	14	12 Vdc	0.8 Adc	
		S4	2-6	20	18 Vdc	0.8 Adc	
		S5	1-6	33	30 Vdc	0.2 Adc	

Note: Regulation with auxiliary winding

PHYSICAL CHARACTERISTICS(unit:mm)



SCS 74080,74082 SERIES 12-24W EF20 -2 OUTPUT FLYBACK TRANSFORMERS

FEATURES

Primary / Secondary Insulation $\geq 4000V$
 Primary Auxiliary Insulation 1500V
 Creepage distances
 Primary/secondary $\geq 8mm$

Bulk packaging is standard
 Custom design available

AC-DC converters
 DC-DC converters
 Switch Power supplies
 FAPS: Flyback, Forward and Push-pull
 FAPS: Half Bridge and Full Bridge

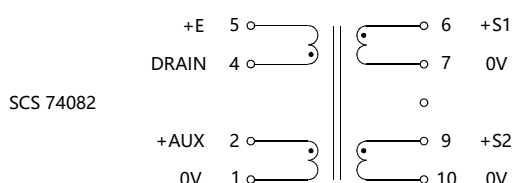
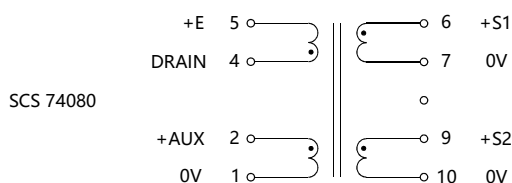


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 New approvals may be required.



TECHNICAL INFORMATION

- Ambient temperature $< 50^{\circ}C$
- Construction confirms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94-VO listed materials



ELECTRICAL CHARACTERISTICS AT 25°C

P/N	Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
SCS 74080	Power Integrations	TOP243P	185-265Vrms	24 w	132 kHz
	Power Integrations	TOP243P	85-265Vrms	15 w	132 kHz
	Power Integrations	TNY268	185-265Vrms	17 w	132 kHz
SCS 74082	Power Integrations	TOP243P	185-265Vrms	20 w	132 kHz
	Power Integrations	TOP243P	85-265Vrms	14 w	132 kHz

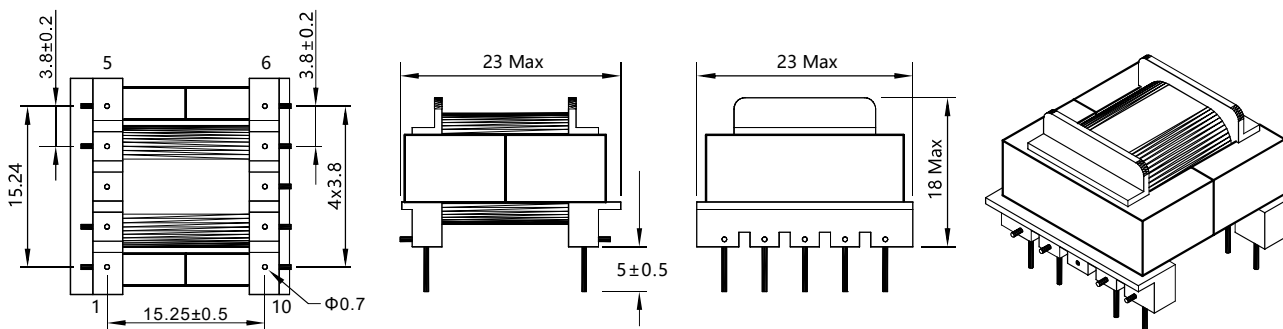
SIZE EF20 2 OUTPUTS : 5 /5v or 12/12v - FLYBACK TRANSFORMER

Part Number	Output Power max	Windings				
		Pins	Turns	Voltage	Current max	Inductance (+/-10%)
SCS 74080	24W	Pri	4-5	86	80-135(VOR)	1Apeak
		Aux	2-1	12	11- 8 Vdc	0.3 Adc
		S1	6-7	10	9- 5 Vdc	1.5 Adc
		S2	9-10	10	9-15 Vdc	1.5 Adc
SCS 74082	20W	Pri	4-5	86	30-135(VOR)	0.9Apeak
		Aux	2-1	12	7-18 Vdc	0.3 Adc
		S1	6-7	5	3-7.5 Vdc	2.0 Adc
		S2	9-10	5	3 - 7.5 Vdc	2.0 Adc

Note: PIN 3 Removed, PCB Drilling Diameter = 1.2mm

Note: S1 and S2 can be connected in series or in parallel

PHYSICAL CHARACTERISTICS(unit:mm)



SCS 74081 SERIES 12-24W EF20 -3 OUTPUT FLYBACK TRANSFORMERS

FEATURES

Primary / Secondary Insulation $\geq 4000V$
 Primary Auxiliary Insulation 1500V
 Creepage distances
 Primary/secondary $\geq 8mm$

Bulk packaging is standard
 Custom design available

AC-DC converters
 DC-DC converters
 Switch Power supplies
 FAPS: Flyback, Forward and Push-pull
 FAPS: Half Bridge and Full Bridge

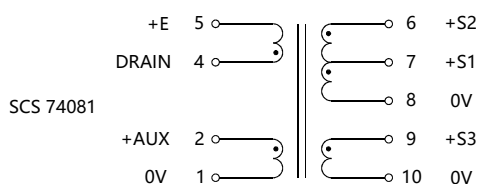


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TECHNICAL INFORMATION

- Ambient temperature $< 50^{\circ}C$
- Construction confirms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94-VO listed materials



Note: PIN 3 Removed, PCB Drilling Diameter = 1.2mm

ELECTRICAL CHARACTERISTICS AT 25°C

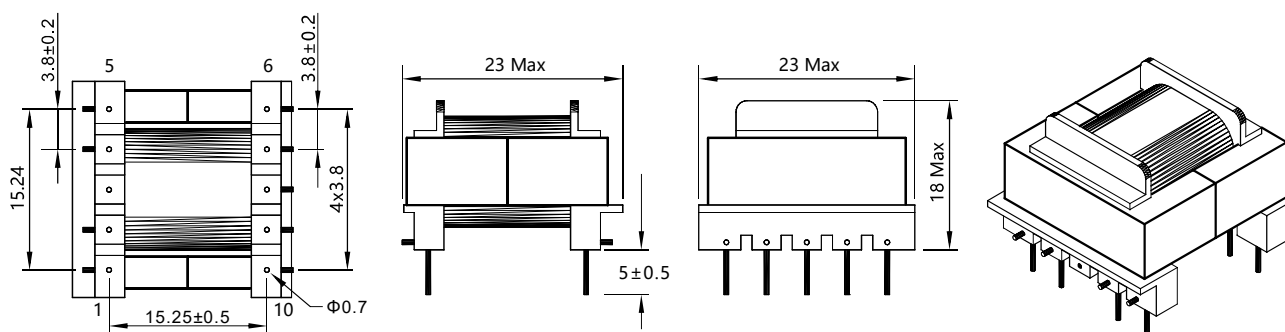
P/N	Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
SCS 74081	Power Integrations	TOP243P	185-265Vrms	20 w	132 kHz
	Power Integrations	TOP243P	85-265Vrms	14 w	132 kHz

SIZE EL20- 3 OUTPUTS : 5/5v or 12/12v - FLYBACK TRANSFORMER

Part Number	Output Power max	Pins	Turns	Windings		
				Voltage	Current max	Inductance (+/-10%)
SCS 74081	20W	Pri	4-5	80	75 (VOR)	0.9 Apeak
		Aux	2-1	17	15 Vdc	0.3 Adc
		S1	7-8	4	3.3 Vdc	3 Adc
	S2	6-8	6	5 Vdc	sum S1+S2	
	S3	9-10	14	12 Vdc	1.3 Adc	
						1100μH

Note: Regulation with auxiliary winding

PHYSICAL CHARACTERISTICS(unit:mm)



SCS 74030,74032 SERIES 15-30W E25 -3 or 10 UTPUT FLYBACK TRANSFORMERS

FEATURES

Primary / Secondary Insulation $\geq 4000V$
 Primary Auxiliary Insulation 1500V
 Creepage distances
 Primary/secondary $\geq 8mm$

Bulk packaging is standard
 Custom design available

AC-DC converters
 DC-DC converters
 Switch Power supplies
 FAPS: Flyback, Forward and Push-pull
 FAPS: Half Bridge and Full Bridge

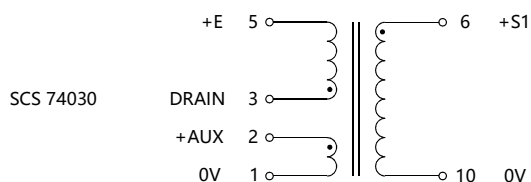
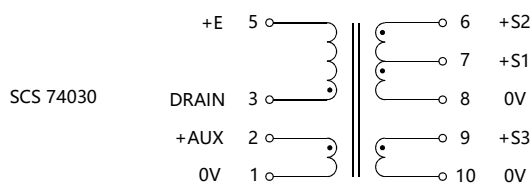


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TECHNICAL INFORMATION

- Ambient temperature $< 50^{\circ}C$
- Construction confirms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94-VO listed materials



Note: PIN 3 Removed, PCB Drilling Diameter = 1.4mm

ELECTRICAL CHARACTERISTICS AT 25°C

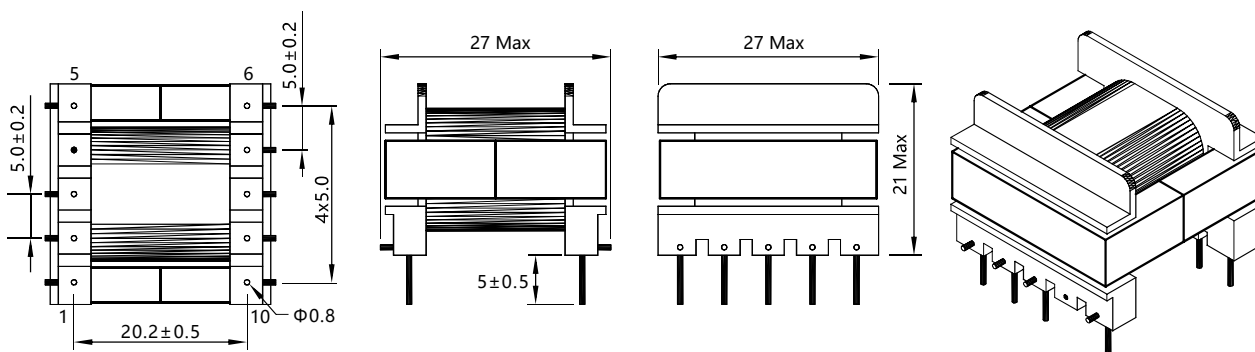
P/N	Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
SCS 74030	Fairchild	KA1H0265R	85-265 Vrms	22 w	100 kHz
	Infineon	TDA16832	185-265 Vrms	30 w	100 kHz
	Motorola	MC33371	85-265 Vrms	22 w	100 kHz
	Motorola	MC33371	185-265 Vrms	30 w	100 kHz
	Power Integrations	TOP244P	185-265 Vrms	30 w	132 kHz
	Power Integrations	TOP244Y	85-265 Vrms	25 w	66/132kHz
	ST Microelectronics	VIPer50	85-265 Vrms	22 w	70 kHz
SCS74032	ST Microelectronics	VIPer50	185- 65 Vrms	30 w	70 kHz
	Power Integrations	TOP244P	185-265 Vrms	25 w	132 kHz

SIZE E25 - 3 or 1 OUTPUTS : 5 + 12/12v or 24v - FLYBACK TRANSFORMER

Part Number	Output Power max	Windings					
		Pins	Turns	Voltage	Current max	Inductance (+/-10%)	
SCS 74030	30W	Pri	3-5	70	65-130(VOR)	1.5Apeak	750μH
		Aux	2-1	8	7-14.5 Vdc	1 Adc	
		S1	7-8	4	3.3-7	3 Adc	
		S2	6-8	9	8-16 Vdc	1.5 Adc	
SCS 74032	35W	Pri	3-5	72	65-125 (VOR)	1.1 Apeak	1100μH
		Aux	2-1	10	8-16 Vdc	1 Adc	
		S1	6-10	18	15-30 Vdc	1.4 Adc	
		S2	9-10	9	8-16 Vdc	1.5 Adc	

Note to 74030 : S2 and S3 can be connected in series or in parallel

PHYSICAL CHARACTERISTICS(unit:mm)



SCS 74043 SERIES 30-60W ERL28 -4 OUTPUT FLYBACK TRANSFORMERS

FEATURES

Primary / Secondary Insulation $\geq 4000V$
 Primary Auxiliary Insulation 1500V
 Creepage distances
 Primary/secondary $\geq 6mm$

Bulk packaging is standard
 Custom design available

AC-DC converters
 DC-DC converters
 Switch Power supplies
 FAPS: Flyback, Forward and Push-pull
 FAPS: Half Bridge and Full Bridge

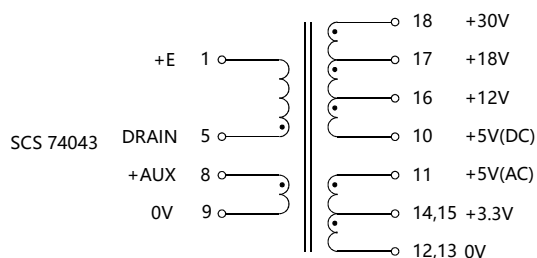


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TECHNICAL INFORMATION

- Ambient temperature $< 50^{\circ}C$
- Construction confirms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94-VO listed materials



Note: PIN 3 Removed, PCB Drilling Diameter = 1.4mm

ELECTRICAL CHARACTERISTICS AT 25°C

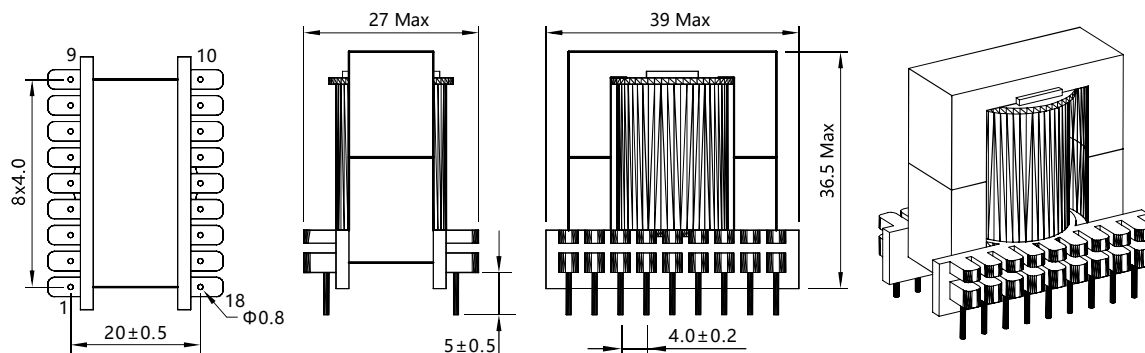
Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Power Integrations	TOP246Y	185-265Vrms	60 w	66/132 kHz
Power Integrations	TOP246Y	85-265Vrms	45 w	66/132 kHz

SIZE ETD29 - 4 OUTPUTS : 5 + 12/5 + 12v - FLYBACK TRANSFORMER

Part Number	Output Power max	Windings					
		Pins	Turns	Voltage	Current max	Inductance (+/-10%)	
SCS 74043	60W	Pri	5-1	45	90 (VOR)	3Apeak	500μH
		Aux	8-9	7	15 Vdc	0.5 Adc	
		S1	14+15/12+13	2	3.3 Vdc	7 Adc	
		S2	11/12+13	3	5 Vdc	sum S1+S2	
		S3	16-10	4	12 Vdc	2 Adc	
S4	17-10	7	18 Vdc	2 Adc			
S5	18-10	13	30 Vdc	0.5 Adc			

Note: Regulation with auxiliary winding

PHYSICAL CHARACTERISTICS(unit:mm)



SCS 74050 SERIES 60-90W ETD34 -4 OUTPUT FLYBACK TRANSFORMERS



FEATURES

Primary / Secondary Insulation $\geq 4000V$
 Primary Auxiliary Insulation 1500V
 Creepage distances
 Primary/secondary $\geq 8mm$

Bulk packaging is standard
 Custom design available

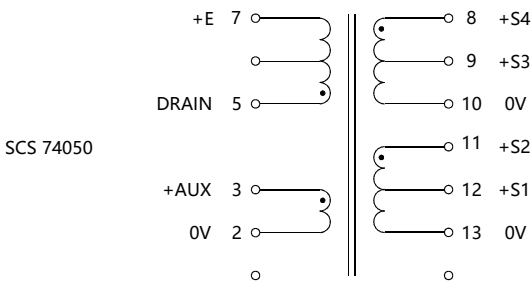
AC-DC converters
 DC-DC converters
 Switch Power supplies
 FAPS: Flyback, Forward and Push-pull
 FAPS: Half Bridge and Full Bridge



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TECHNICAL INFORMATION

- Ambient temperature $< 50^{\circ}C$
- Construction confirms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94-VO listed materials



Note: PIN 4 Removed, PCB Drilling Diameter = 1.5mm

ELECTRICAL CHARACTERISTICS AT 25°C

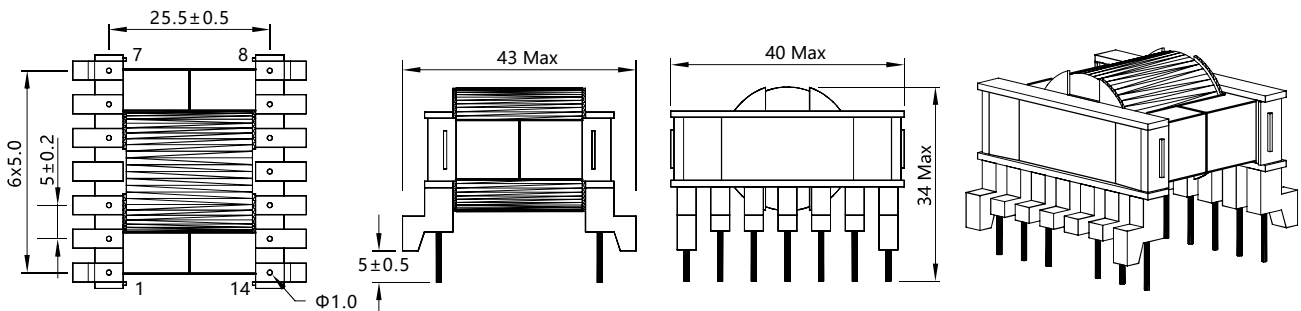
Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Infineon	TDA16834	185-265 Vrms	80 w	100 kHz
Infineon	TDA16836	85-265 Vrms	60 w	100 kHz
Motorola	MC33373	185-265 Vrms	80 w	100 kHz
Motorola	MC33373	85-265 Vrms	60 w	100 kHz
Power Integrations	TOP246Y	185-265 Vrms	90 w	132 kHz
Power Integrations	TOP246Y	85-265 Vrms	60 w	66/132kHz
ST Microelectronics	VIPer100A	185-265 Vrms	80 w	70 kHz
ST Microelectronics	VIPer100A	85-265 Vrms	60 w	70 kHz

SIZE ETD29 - 4 OUTPUTS : 5 + 12/5 + 12v - FLYBACK TRANSFORMER

Part Number	Output Power max	Pins	Turns	Windings			
				Voltage	Current max	Inductance (+/-10%)	
SCS 74050	90W	Pri	5-7	36	65-125(VOR)	2.8Apeak	500μH
		Aux	3-2	4	7-14 Vdc	0.5 Adc	
		S1	12-13	2	3.3-6.5	5 Adc	
		S2	11-13	5	8.5-17 Vdc	3 Adc	
		S3	9-10	2	3.3-6.5	5 Adc	
		S4	8-10	5	8.5-17 Vdc	3 Adc	

Note : S1/S3 or S2/S4 can be connected in series or in parallel

PHYSICAL CHARACTERISTICS(unit:mm)



SCS 74060 SERIES 70-140W ETD39 - 4 OUTPUT FLYBACK TRANSFORMERS

FEATURES

Primary / Secondary Insulation $\geq 4000V$
 Primary Auxiliary Insulation 1500V
 Creepage distances
 Primary/secondary $\geq 8mm$

Bulk packaging is standard
 Custom design available

AC-DC converters
 DC-DC converters
 Switch Power supplies
 FAPS: Flyback, Forward and Push-pull
 FAPS: Half Bridge and Full Bridge

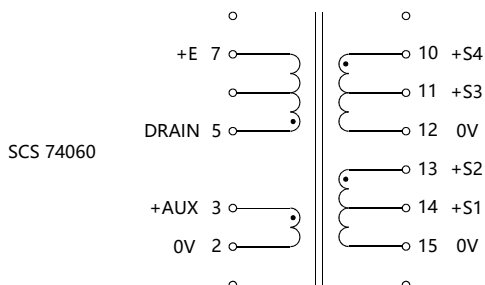


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TECHNICAL INFORMATION

- Ambient temperature $< 50^{\circ}C$
- Construction confirms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94-VO listed materials



Note: PIN 4 Removed, PCB Drilling Diameter = 1.5mm

ELECTRICAL CHARACTERISTICS AT 25°C

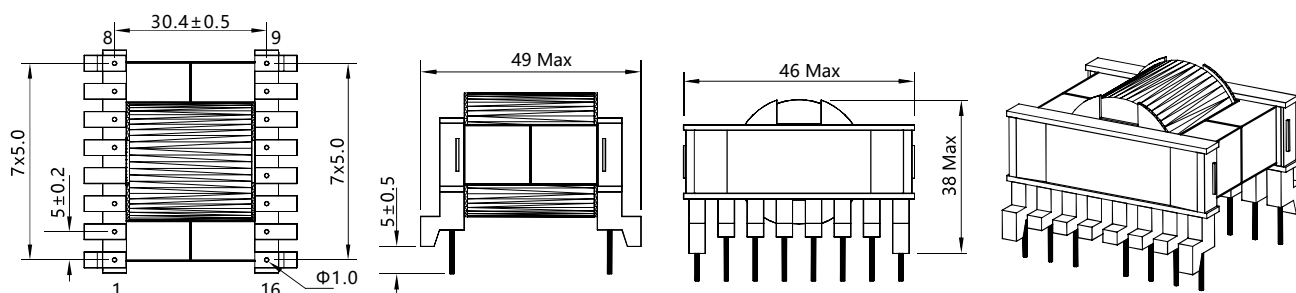
Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Fairchild	KA1H0565R	85-265Vrms	70 w	100 kHz
Fairchild	KA1H0565R	185-265Vrms	120 w	100 kHz
Infineon	TDA16836	85-265Vrms	70 w	100 kHz
Infineon	TDA16836	185-265Vrms	120 w	100 kHz
Motorola	MC33374	85-265Vrms	70 w	100 kHz
Motorola	MC33374	185-265Vrms	120 w	100 kHz
Power Integrations	TOP247Y	185-265Vrms	140 w	132 kHz
Power Integrations	TOP247Y	85-265Vrms	90 w	66/132 kHz
ST Microelectronics	VIPer100A	85-265Vrms	70 w	70 kHz
ST Microelectronics	VIPer100A	185-265Vrms	120 w	100 kHz

SIZE ETD39 - 4 OUTPUTS : 5 + 12/5 + 12v - FLYBACK TRANSFORMER

Part Number	Output Power max	Pins	Turns	Windings			
				Voltage	Current max	Inductance (+/-10%)	
SCS 74060	90W	Pri	5-1	36	65-125(VOR)	4 Apeak	
		Aux	3-2	4	7-14Vdc	0.5 Adc	
		S1	12-13	2	3.3-6.5Vdc	5 Adc	440μH
		S2	11-13	5	8.5-17Vdc	5 Adc	
		S3	9-10	2	12 Vdc	5 Adc	
		S4	5-10	5	18 Vdc	5 Adc	

Note: S1/S3 or S2/S4 can be connected in series or in parallel

PHYSICAL CHARACTERISTICS(unit:mm)



SCS 74070 SERIES 120-180W ETD44 - 4 OUTPUT FLYBACK TRANSFORMERS



FEATURES

Primary / Secondary Insulation $\geq 4000V$
 Primary Auxiliary Insulation 1500V
 Creepage distances
 Primary/secondary $\geq 8mm$

Bulk packaging is standard
 Custom design available

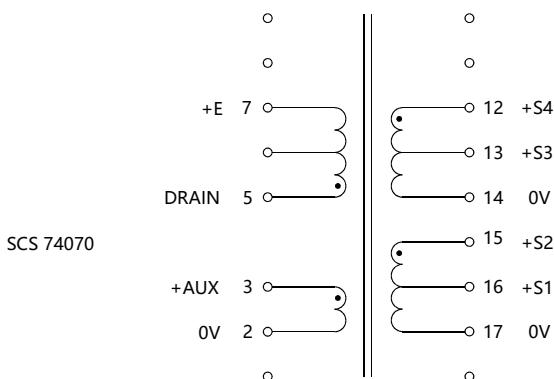
AC-DC converters
 DC-DC converters
 Switch Power supplies
 FAPS: Flyback, Forward and Push-pull
 FAPS: Half Bridge and Full Bridge



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TECHNICAL INFORMATION

- Ambient temperature $< 50^{\circ}C$
- Construction confirms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94-VO listed materials



Note: PIN 4 Removed, PCB Drilling Diameter = 1.5mm

ELECTRICAL CHARACTERISTICS AT 25°C

Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Fairchild	KA2S0965	185-265Vrms	160w	100 kHz
Infineon	TDA16837	185-265Vrms	160w	100 kHz
Philips	TEA1566	185-265Vrms	120w	50 kHz
Power Integrations	TOP248Y	185-265Vrms	180w	66/132kHz
Power Integrations	TOP249Y	85-265Vrms	120w	66 kHz

SIZE ETD44 - 4 OUTPUTS : 5 + 12 / 5 + 12v - FLYBACK TRANSFORMER

Part Number	Output Power max	Windings					
		Pins	Turns	Voltage	Current max	Inductance (+/-10%)	
SCS 74070	180W	Pri	5-7	38	65-125(VOR)	8 Apeak	300μH
		Aux	3-2	4	7-14 Vdc	0.5 Adc	
		S1	16-17	2	3.3-6.5	6 Adc	
		S2	15-17	5	8.5-17 Vdc	5 Adc	
		S3	13-14	2	3.3-6.5	6 Adc	
		S4	12-14	5	8.5-17 Vdc	5 Adc	

Note: S1/S3 or S2/S4 can be connected in series or in parallel

PHYSICAL CHARACTERISTICS(unit:mm)

