

SWITCHING TRANSFORMERS

YCEE, YCEI SERIES

FEATURES:

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

COMMON APPLICATIONS:

- Drive transformers
- Main transformers
- Smoothing chokes
- General purpose use

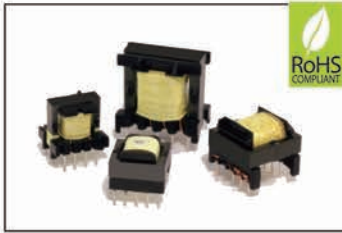
OPTIONS:

- Bulk packaging is standard
- Custom design available

ELECTRICAL CHARACTERISTICS

Part No.	Type	No. of FET/Aluminal plus	Dimensions (mm)						Max. output (VA)
			Max A	Max B	Max C	±0.3 D	±0.5 E	±0.1 F	
YCEI 8.3-A	V	6	8.5	8.5	9.0	2.5	6.0	0.5	3
YCEE 8.3-B	H	6	8.5	8.5	7.0	2.5	6.0	0.5	3
YCEE 8.3-C	H	4	8.5	9.5	9.0	5.0	6.8	0.5	3
YCEI 10-A	V	8	10.5	11.0	11.0	2.5	8.0	0.5	5
YCEI 10-B	H	8	11.0	13.0	10.5	2.5	10.5	0.5	5
YCEI 10-C	H	4	10.0	9.5	10.0	5.0	6.8	0.5	5
YCEI 12.5-A	V	10	13.0	13.0	10.0	2.5	7.5	0.6	8
YCEE 12-A	H	4	12.5	11.0	12.5	8.0	9.0	0.6	8
YCEE 13-A	V	10	13.5	13.0	12.0	2.5	8.7	0.6	9
YCEI 14-A	V	6	14.5	14.5	13.0	3.5	11.0	0.6	15
YCEE 16-A	V	6	16.5	13.5	13.0	3.0	9.0	0.6	25
YCEE 16-B	H	8	16.5	14.5	15.0	3.0	11.0	0.6	25
YCEE 16-C	H	8	16.5	14.5	15.0	3.5	12.0	0.6	25
YCEE 16-D	V	10	16.5	13.5	14.5	3.25	10.5	0.6	25
YCEE 16-F	H	10	16.5	19.0	14.0	3.2	15.5	0.8	25
YCEEL 16-A	V	10	22.0	16.5	30.0	4.0	10.3	0.6	25
YCEE 19-A	V	6	20.0	18.0	18.0	4.1	14.0	0.7	35
YCEE 19-B	V	6	20.0	16.0	18.0	4.7	11.6	0.6	35
YCEE 19-C	H	8	20.0	18.0	16.5	3.8/5	12.5	0.7	35
YCEEL 19-A	V	8	20.0	20.5	32.0	3.8/4.8	15.0	0.8	35
YCEEL 19-B	H	6	19.5	32.0	13.0	5	24.2	0.8	35
YCEEL 19-C	V	10	23.0	16.5	32.0	4	10.0	0.8	35
YCEE 20-A	H	8	20.5	19.0	13.0	5	15.0	0.8	35
YCEE 22-A	V	10	22.5	16.5	20.0	4	10.2	0.8	45
YCEE 22-B	V	8	22.5	17.0	20.0	5	12.4	0.8	45
YCEE 22-C	H	9	22.5	24.5	16.5	3.5/5	17.2	0.8	45
YCEE 25-A	V	8	25.5	18.0	22.0	5	12.4	0.8	65
YCEE 25-B	V	10	26.0	20.5	22.0	5	15.2	0.8	65
YCEE 25-C	H	10	27.0	24.0	24.0	4.0/5	14.6	0.8	65
YCEEL 25-A	H	14	27.5	33.5	21.0	4.0	27.1	0.8	65
YCEI 25-B	V	14	27.5	21.0	35.0	4.0	15.0	0.8	65
YCEI 28-A	V	12	29.5	25.0	24.0	5.0	17.5	0.8	100
YCEI 28-B	V	10	28.5	25.0	35.0	5.0	20.0	0.8	100
YCEI 28-C	H	8	28.5	25.0	25.0	5.0	17.5	0.8	100
YCEI 30-A	V	10	31.0	22.0	26.0	5.0	17.6	0.8	155
YCEI 30-B	V	12	31.0	26.0	26.0	5.0	20.0	0.8	155
YCEE 30-A	H	10	30.5	30.0	20.5	5.0	25.0	0.8	155
YCEE 30-B	H	12	30.5	30.0	20.5	5.0	25.0	0.8	155
YCEI 33-A	V	14	34.0	28.0	30.0	5.0	22.5	0.8	200
YCEI 33-B	V	12	34.0	28.0	30.0	5.0	22.5	0.8	200
YCEI 33-C	V	16	39.0	29.0	30.0	5.0	22.5	0.8	200
YCEE 35-A	H	12	38.0	30.0	26.0	3.8/5.1	22.0	0.8	215
YCEE 35-B	V	10	35.5	26.0	28.0	5.0	20.0	0.8	215
YCEE 35-C	V	14	35.5	26.0	28.0	5.0	20.0	0.8	215
YCEEL 35-A	V	15	36.5	27.5	50.0	5.0	22.5	0.8	215
YCEI 35-A	V	12	35.5	28.5	29.0	5/7.5	20.0	1.0	215
YCEI 40-A	V	12	40.5	29.0	32.0	5.0	22.5	0.8	345
YCEI 40-B	H	12	40.5	37.0	27.0	5.0	28.2	1.0	345
YCEI 40-C	V	16	42.0	28.0	35.0	5.0	22.5	0.8	345
YCEI 40-D	H	14	40.5	35.0	29.0	5.0	25.8	0.8	345
YCEE 42-A	H	16	44.5	42.0	41.5	5.0	34.0	1.0	400
YCEE 42-B	H	12	47.0	42.0	39.5	5/7.5	33.0	1.0	400
YCEE 42-C	V	18	46.0	32.5	46.0	5.0	27.5	1.0	400
YCEE 42-D	V	12	46.0	42.5	37.0	7.4	36.4	1.0	420
YCEE 42-E	V	12	43.0	40.5	45.0	5.0	32.5	1.0	420
YCEE 42-F	H	17	43.0	47.0	45.0	2.5/5	37.7	1.0	420
YCEE 42-G	V	18	46.0	38.0	47.0	5.0	30.0	1.0	420
YCEE 50-A	V	18	51.0	40.0	40.0	5.0	30.5	1.0	500
IRAFATEE-55-A	H	20	56.0	55.0	50.5	5/7.5	45.2	1.0	814

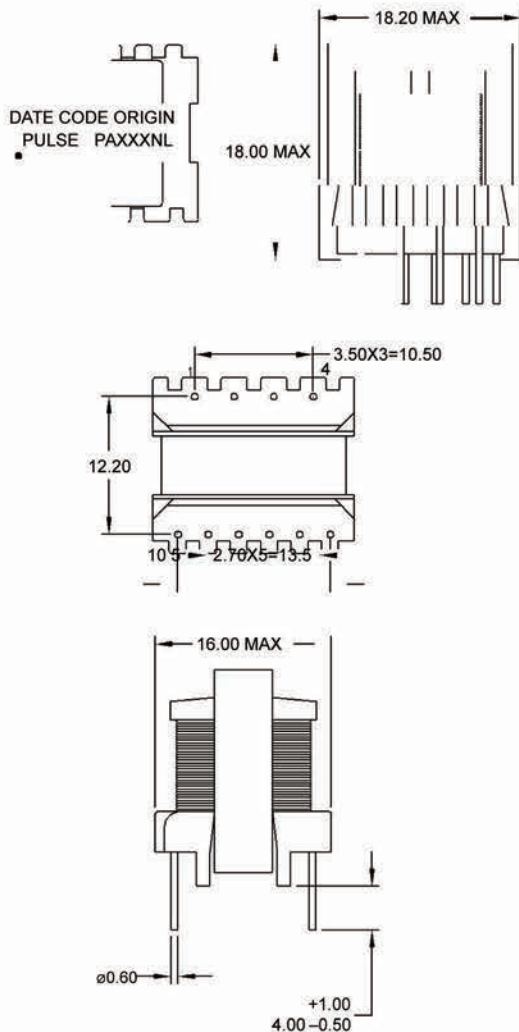
Note: The output power is only for forward model and the frequency at 100kHz



High Frequency Wire Wound Transformers

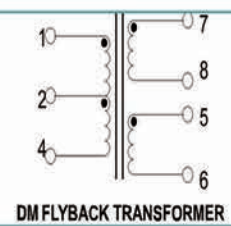
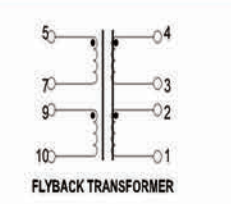
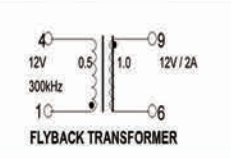
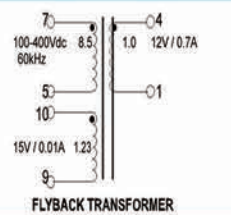
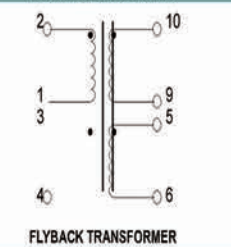
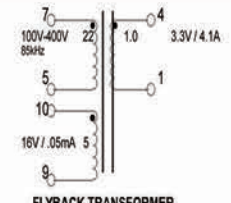
YCEE16 Platforms - THT Vertical

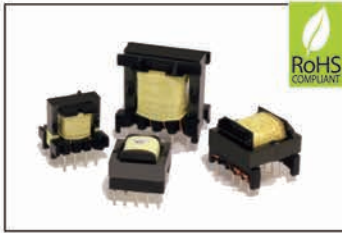
- AC/DC and DC/DC Switching Transformers
- Reinforced Insulation
- 3000Vrms Hi-pot
- Power Range: Up to 60W
- Height: 18.0mm Max
- Footprint: 18.2mm x 16.0mm Max
- Topology: Flyback



Electrical Specifications @ 25°C — Operating Temperature -40°C to 130°C			
YCEE16-1	Pri. Inductance	(7-5)	3200.0μH ±10%
	Lk. Inductance	(7-5) with (1-4) shorted	56μH MAX
	DCR	(7-5)	6400mΩ MAX
		(4-1)	20mΩ MAX
		(10-9)	360mΩ MAX
	Hi-Pot	Pri-Sec	3000 Vrms
K1 Factor	14692.4		
YCEE16-2	Pri. Inductance	(2-1)	1000μH ±15%
	Lk. Inductance	(2-1) with (3,4,5,6,9,10) shorted	40μH MAX
	DCR	(2-1)	3220mΩ MAX
		(3-4)	210mΩ MAX
		(5-6)	70mΩ MAX
		(10-9)	80mΩ MAX
	Hi-Pot	Pri-Sec	3000 Vrms
K1 Factor	5611.7		
YCEE16-3	Pri. Inductance	(7-5)	1200.0μH ±10%
	Lk. Inductance	(7-5) with (1,4,9,10) shorted	30μH MAX
	DCR	(7-5)	4950mΩ MAX
		(4-1)	57.5mΩ MAX
		(10-9)	915mΩ MAX
	Hi-Pot	Pri-Sec	3000 Vrms
K1 Factor	5509.6		
YCEE16-4	Pri. Inductance	(1-4)	4.5μH ±12%
	Lk. Inductance	(1-4) with (9-6) shorted	0.21μH MAX
	DCR	(1-4)	142mΩ MAX
		(9-6)	73mΩ MAX
		Pri-Sec	4000 Vrms
		71.0	
YCEE16-5	Pri. Inductance	(5-7)	1000μH ±10%
	Lk. Inductance	(5-7) with (4,3,2,1) shorted	17μH MAX
	DCR	(5-7)	2430mΩ MAX
		(4-3)	260mΩ MAX
		(2-1)	82mΩ MAX
		(9-10)	89mΩ MAX
	Hi-Pot	Pri-Sec	4000 Vrms
K1 Factor	6313.1		
YCEE16-6	Pri. Inductance	(1-4)	3100 μH ±10%
	Lk. Inductance	(1-4) (8,7,6,5)	62μH MAX
	DCR	(1-4)	4200mΩ MAX
		(5-6)	64mΩ MAX
		(7-8)	105mΩ MAX
	Hi-Pot	Pri-Sec	3000 Vrms
K1 Factor	9687.0		

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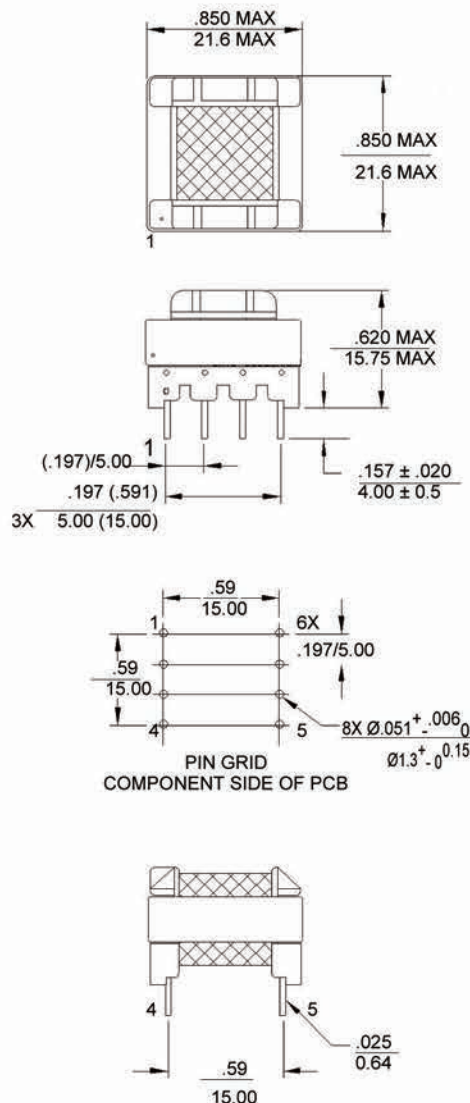




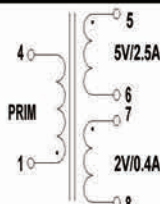
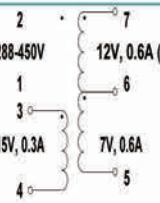
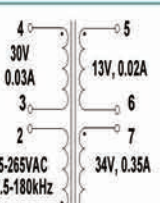
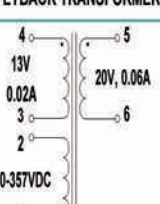
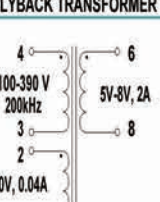
High Frequency Wire Wound Transformers

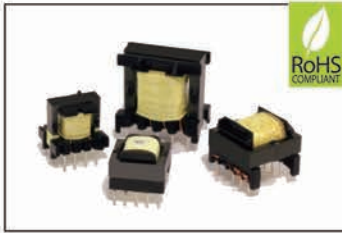
YCEE20 Platforms - THT Vertical

- AC/DC and DC/DC Switching Transformers
- Reinforced Insulation
- 3000Vrms Hi-pot
- Topology: Flyback
- Custom Design Available



Electrical Specifications @ 25°C - Operating Temperature -40°C to 130°C

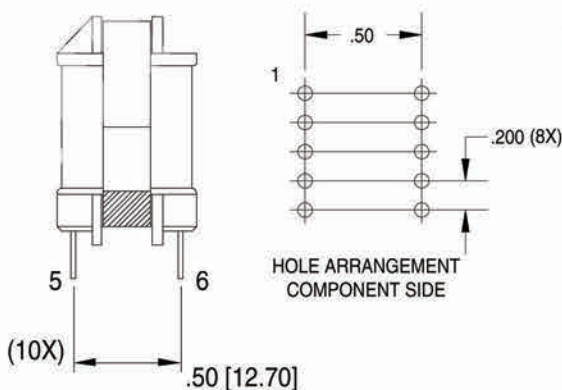
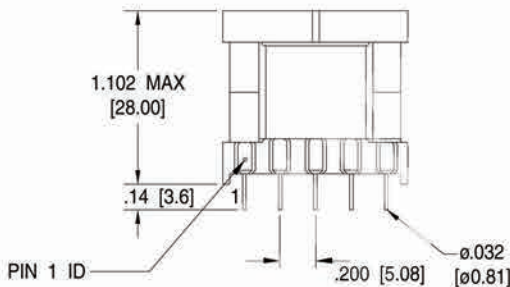
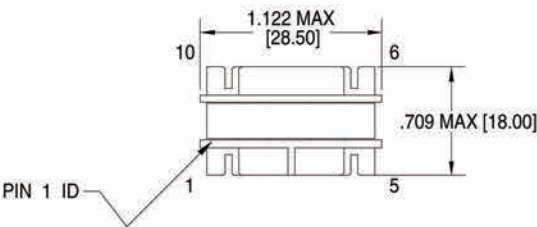
YCEE20-1	Pri. Inductance	(1-4)	1.64 mH NOM.	 FLYBACK TRANSFORMER
	Lk. Inductance w/		μH MAX shorted	
	DCR	(1-4) (7-8) (5-6)	2800 17.5 7.3 m Ω Max	
	Hi-Pot	Pri-Sec	4200 Vrms	
	K1 Factor		5229.6	
YCEE20-2	Pri. Inductance	(2-1)	1800 μH +/- 10%	 FLYBACK TRANSFORMER
	Lk. Inductance w/	(2-1) (5,6,7)	42 μH MAX shorted	
	DCR	(2-1) (5-7) (3-4)	2020 210 510 m Ω Max	
	Hi-Pot	Pri-Sec	3000 Vrms	
	K1 Factor		4687.5	
YCEE20-3	Pri. Inductance	(1-2)	380 μH +/- 20%	 FLYBACK TRANSFORMER
	Lk. Inductance w/	(1-2) (3,4,5,6,7,8)	5.6 μH MAX shorted	
	DCR	(1-2) (4-3) (5-6) (7-8)	740 1050 240 280 m Ω Max	
	Hi-Pot	Pri-Sec	3000 Vrms	
	K1 Factor		3044.8	
YCEE20-4	Pri. Inductance	(1-2)	864 μH +/- 20%	 FLYBACK TRANSFORMER
	Lk. Inductance w/	(1-2) (3,4,5,6)	TBD μH MAX shorted	
	DCR	(1-2) (4-3) (5-6)	1000 6800 300 m Ω Max	
	Hi-Pot	Pri-Sec	3000 Vrms	
	K1 Factor		2755.1	
YCEE20-5	Pri. Inductance	(4-3)	290 μH +/- 10%	 FLYBACK TRANSFORMER
	Lk. Inductance w/	(4-3) (2,1,6,8)	7.4 μH MAX shorted	
	DCR	(4-3) (6-8) (2-1)	560 22 160 m Ω Max	
	Hi-Pot	Pri-Sec	3000 Vrms	
	K1 Factor		1295	



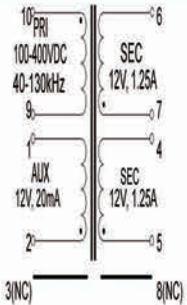
High Frequency Wire Wound Transformers

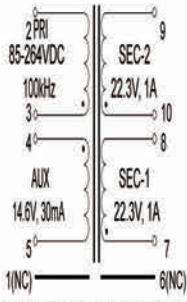
YCEE25 Platforms - THT Vertical

- AC/DC and DC/DC Switching Transformers
- Reinforced Insulation
- 3000Vrms Hi-pot
- Topology: Flyback
- Custom Design Available



Electrical Specifications @ 25°C — Operating Temperature -40°C to 130°C¹

YCEE25-1	Pri. Inductance	(10-9)	396.9 μ H $\pm$ 10%		
	Lk. Inductance	(10-9)	13.8 μ H MAX		
	w/	(1,2,4,5,6,7)	shorted		
	DCR	(10-9)	515		m Ω Max
		(7-6)	25		
		(2-1)	305		
		(5-4)	31		
Hi-Pot	Pri-Sec	3000 Vrms			
K1 Factor	1557.7				

YCEE25-2	Pri. Inductance	(3-2)	137.0 μ H $\pm$ 5%		
	Lk. Inductance	(3-2)	10 μ H MAX		
	w/	(4,5,7,8,9,10)	shorted		
	DCR	(3-2)	300		m Ω Max
		(7-8)	47.5		
		(10-9)	49.5		
		(4-5)	66		
Hi-Pot	Pri-Sec	3000 Vrms			
K1 Factor	675.5				