

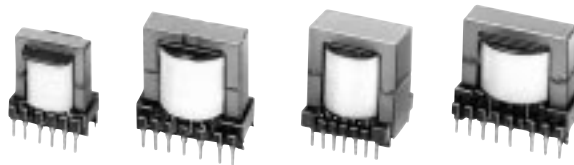
Switching Transformers

Type: **Case Type**
 Type: **Standard Type**

Japan
 Singapore
 Slovakia
 Hongkong
 Indonesia



Case Type



Standard Type

Applied Safety Std.: Denki Yohin* UL, Europe's Class II
 Industrial Property : Utility models 3 (pending)

■ Features

(Case Type)

- Easy mounting

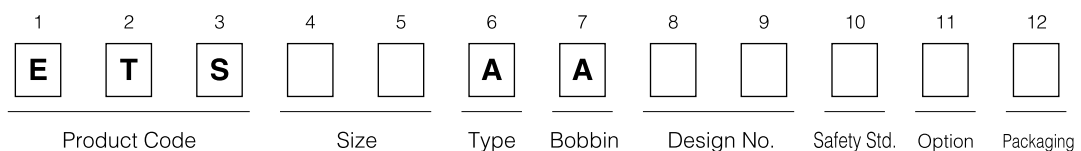
(Standard Type)

- Small mounting area
- The insulation between windings is easy by wide winding width
- UL1411 recognized types are available

■ Recommended Applications

- TV, VTR
- Stereo, Car-Stereo
- Copy Machine, FAX Machine, Power Supply Unit

■ Explanation of Part Numbers



* Denki Yohin stands for the safety regulations under The Electrical Appliance and Material Control Law.

■ Performance Characteristics

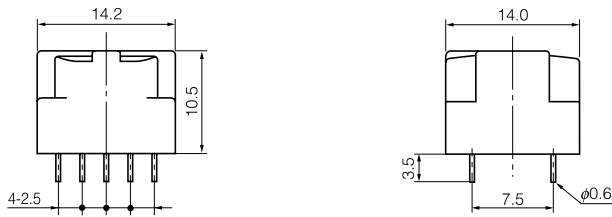
- Applicable Safety Standards and Maximum Output

Type / Size		Characteristics			Standards			Max. Output(W)			
		Denki Yohin*		Europe's Class II		Flyback Type (FB)		Feedforward Type (FF)			
				UL/CSA	IEC65	IEC950	20 kHz	100 kHz	20 kHz	100 kHz	
Case Type	FE13C-10	—	—	—	1.5	3	—	—			
	FE27C-14	○	○	—	16	40	19	50			
	FE28C-16	○	○	—	23	50	27	60			
Standard Type	FE16-10A	○	—	—	3	7	—	—			
	FE16-10B	○	—	—	3	7	—	—			
	FE19-10A	○	—	—	5	10	—	—			
	FE19-10B	○	○	○	3	8	—	—			
	FE22-10	○	—	—	6	13	—	—			
	FE28-10	○	—	—	20	30	23	50			
	FE28-14B	○	○	○	16	40	19	48			
	FE28-16	○	○	○	16	40	19	48			
	FE28-20	○	○	○	23	50	27	60			
	FE29-12A	○	○	○	25	60	30	72			
	FE29-18	○	○	○	25	60	30	72			
	FE29-20	○	○	○	25	60	30	72			
	FE33-14	○	○	—	40	90	48	115			
	FE33-18	○	○	○	40	92	42	108			
	FE35-16	○	○	○	40	100	48	120			
	FE39-18	○	○	○	65	150	78	180			
	FE42-18	○	○	○	100	224	120	268			
	FE49-18	○	○	○	120	268	144	322			
FE49-22	○	○	○	112	245	135	300				

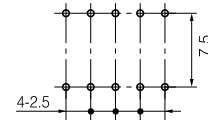
Note: Values in the above table are for reference and will vary depending on ambient temperature, number of output circuits, switching frequency, input voltage range, output range and others.

■ Dimensions in mm (not to scale)

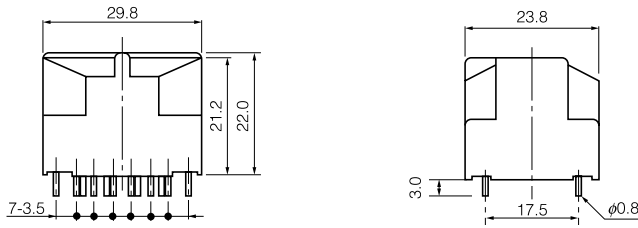
FE13C-10



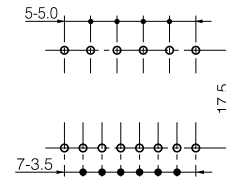
Recommended PWB piercing plan



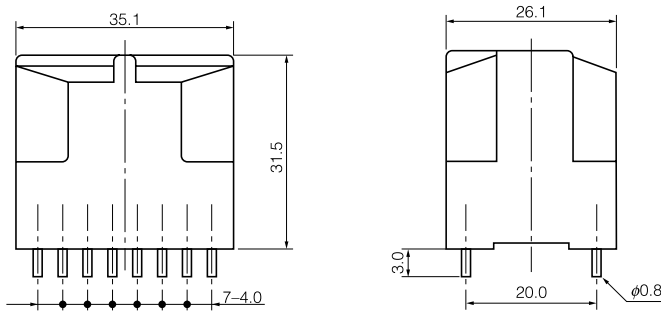
FE27C-14



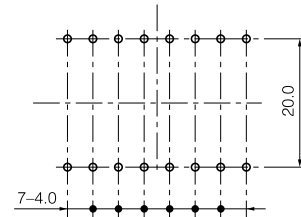
Recommended PWB piercing plan



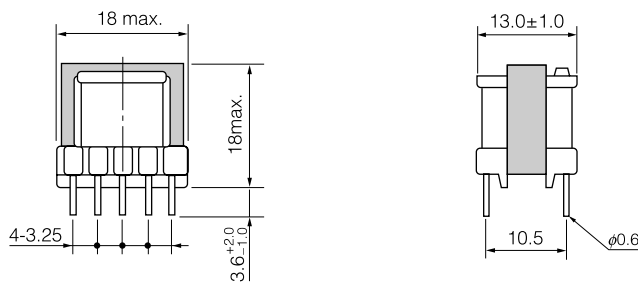
FE28C-16



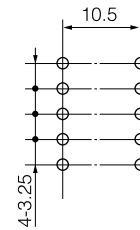
Recommended PWB piercing plan



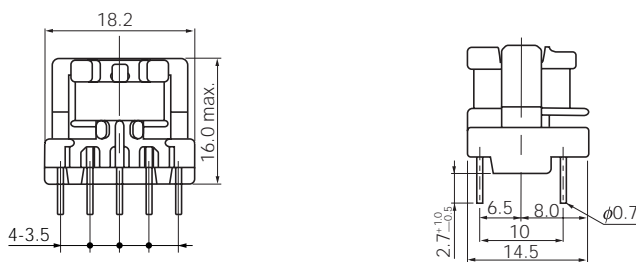
FE16-10A



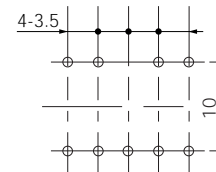
Recommended PWB piercing plan



FE16-10B

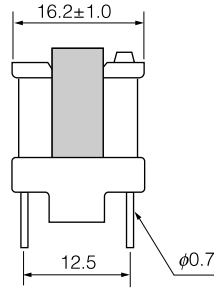
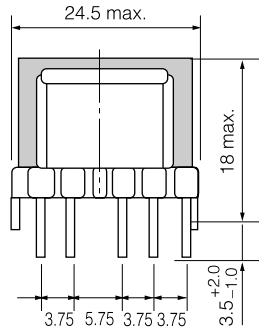


Recommended PWB piercing plan

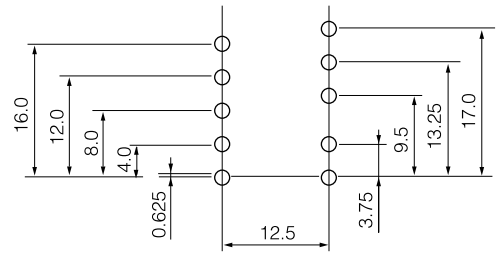


■ Dimensions in mm (not to scale)

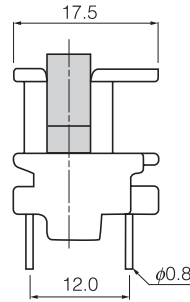
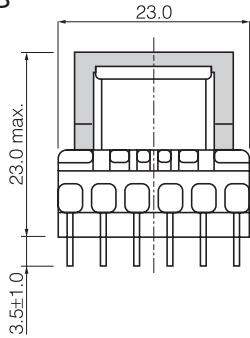
FE19-10A



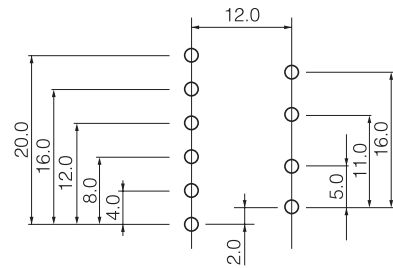
Recommended PWB piercing plan



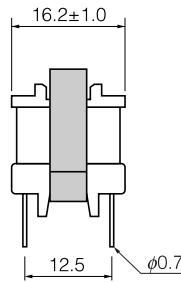
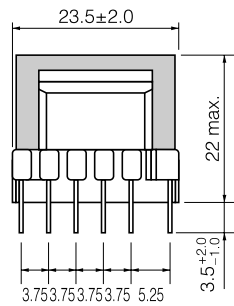
FE19-10B



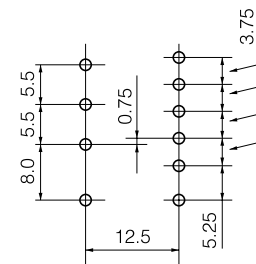
Recommended PWB piercing plan



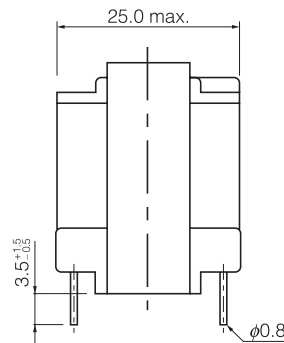
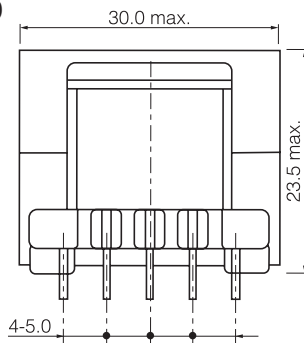
FE22-10



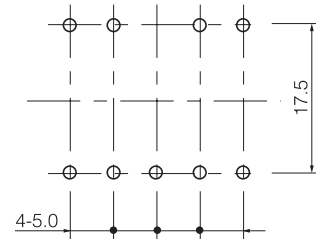
Recommended PWB piercing plan



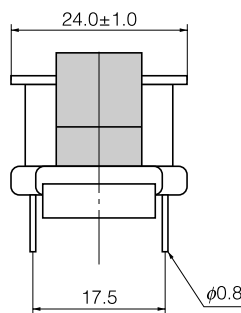
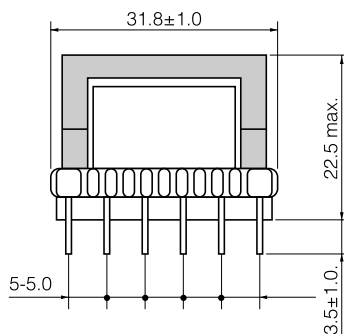
FE28-10



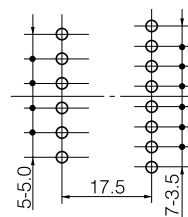
Recommended PWB piercing plan



FE28-14B



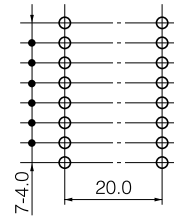
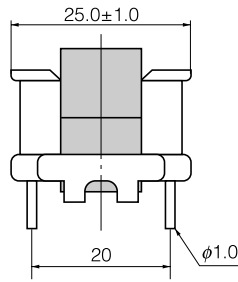
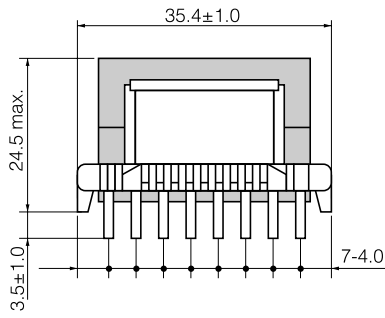
Recommended PWB piercing plan



■ Dimensions in mm (not to scale)

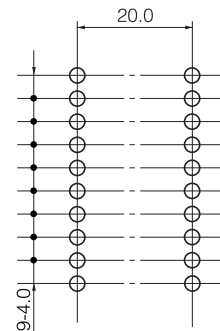
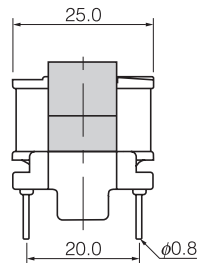
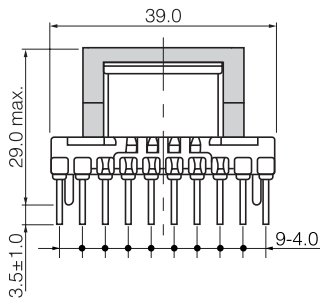
FE28-16

Recommended PWB piercing plan



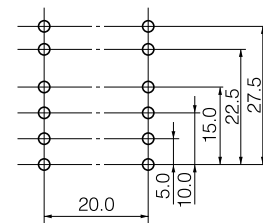
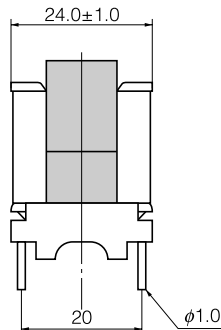
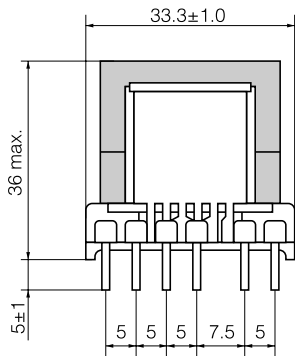
FE28-20

Recommended PWB piercing plan



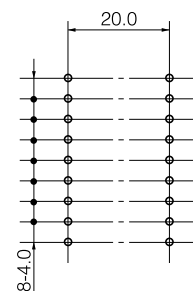
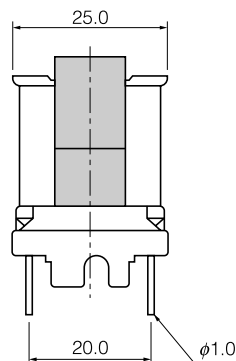
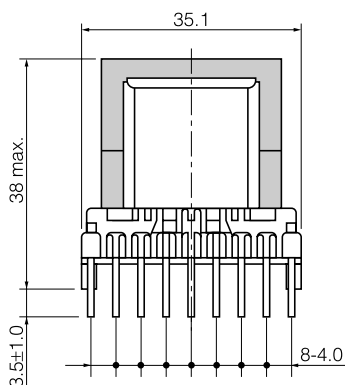
FE29-12A

Recommended PWB piercing plan



FE29-18

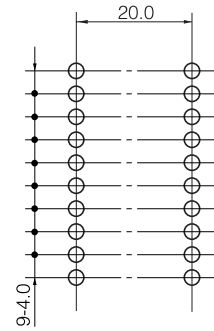
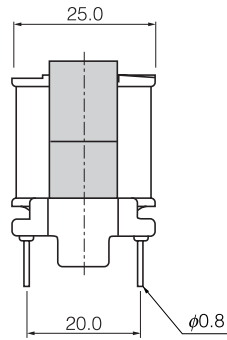
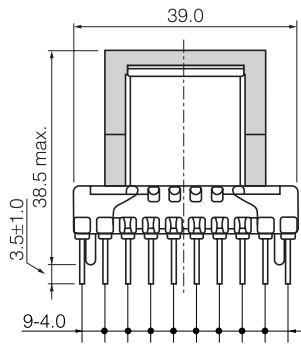
Recommended PWB piercing plan



■ Dimensions in mm (not to scale)

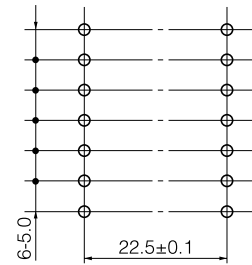
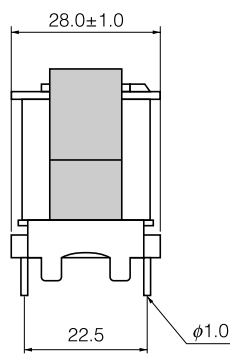
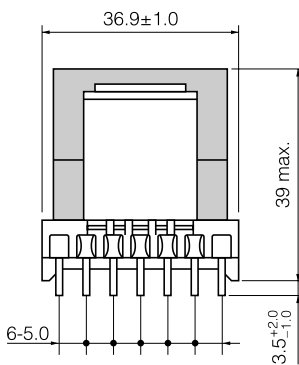
FE29-20

Recommended PWB piercing plan



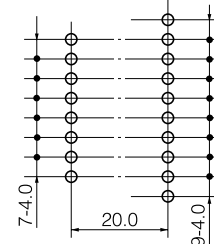
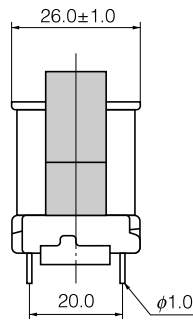
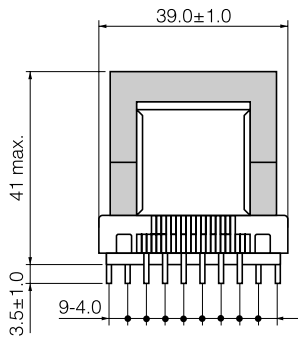
FE33-14

Recommended PWB piercing plan



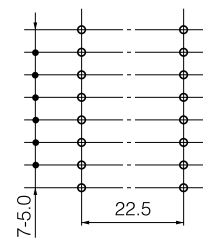
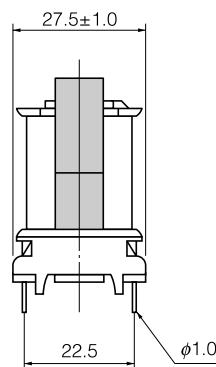
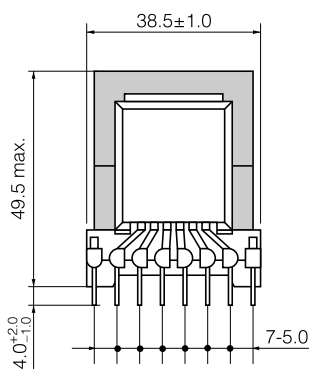
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Recommended PWB piercing plan



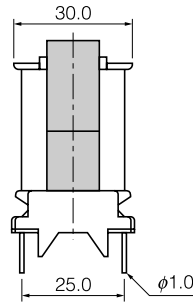
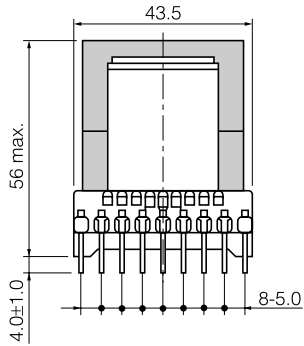
FE35-16

Recommended PWB piercing plan

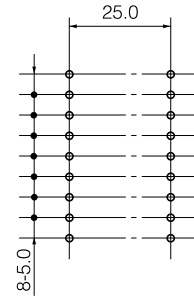


■ Dimensions in mm (not to scale)

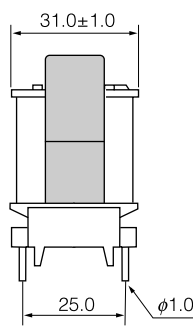
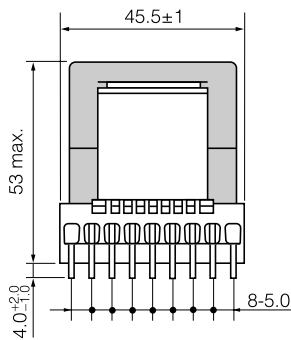
FE39-18



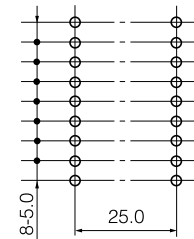
Recommended PWB piercing plan



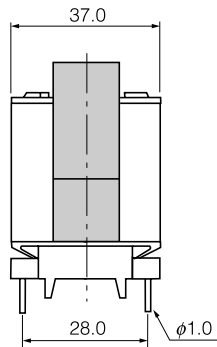
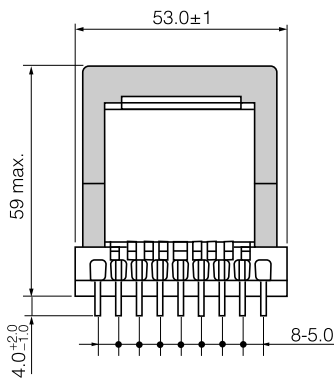
FE42-18



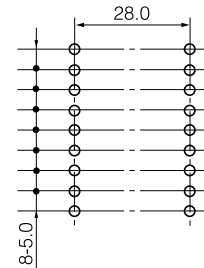
Recommended PWB piercing plan



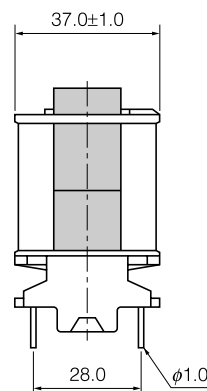
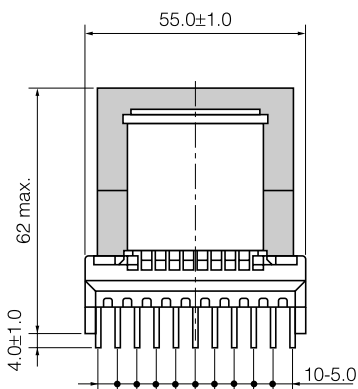
FE49-18



Recommended PWB piercing plan



FE49-22



Recommended PWB piercing plan

