EFD25 - 490 Product Specification
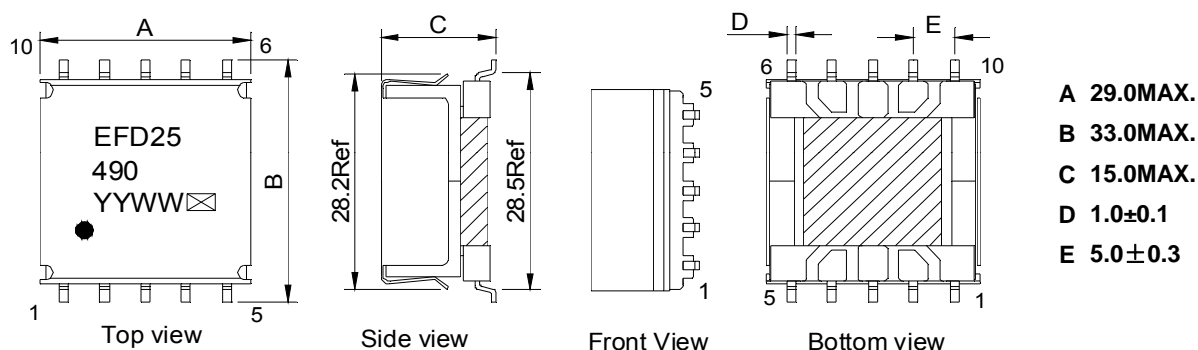
1.Physical Dimensions (Unit:mm)

Top view — EFD25 490 YYWW⊠

Side view — 28.2Ref / 28.5Ref / C

Front View

Bottom view

A 29.0MAX.
B 33.0MAX.
C 15.0MAX.
D 1.0±0.1
E 5.0±0.3

Notes:

(1).Marking type is laser printing

(2).YY: Year Code; WW: Week Code

(3). ⊠ :When making samples, S is used to represent the product is a sample

(4). ⊠ :Use different letters or numbers to represent the products are produced from different production lines

(5).Size B not including soldering tags

(6).Coplanarity Requirement: Less than 0.15mm

(7).Add epoxy to the center column of the cores

2. Connection

Pri. 34~57V 250kHz
N1,N4
Aux. 12V,0.02A
N5
N2,N3
Sec. 12V,4A

" • " Start of winding
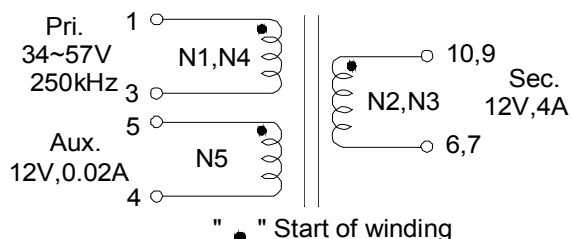
*Customer to tie terminals 6&7 and 9&10 on PC board.
*Application of the transformer allows for the leadwires between terminals 6&7 and 9&10 to solder bridge.
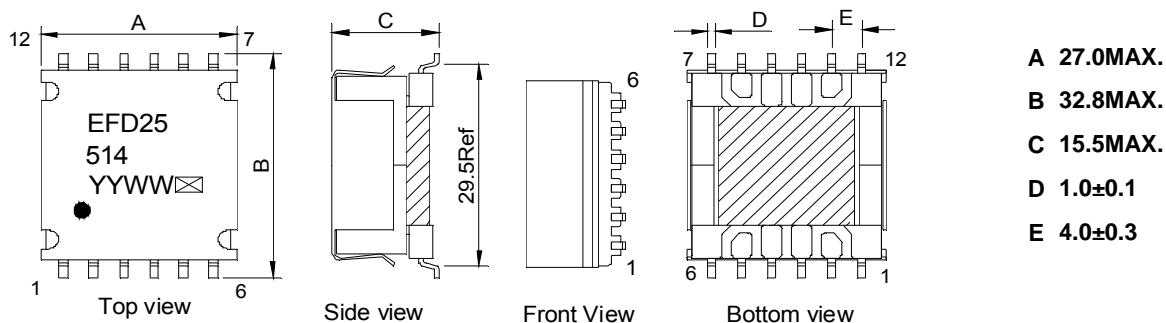
3.Recommended Pad Layout (Unit:mm)

1.65 / 5.0 / 28.21 / 33.25
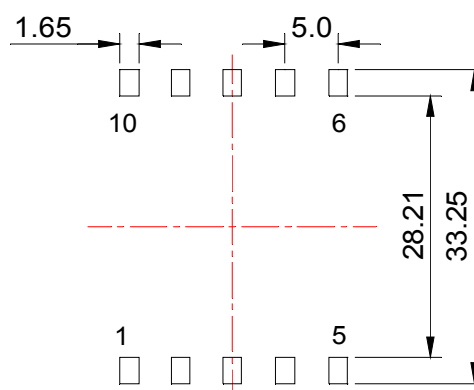
Items	Winding	Specifications	Test Conditions
Inductance	L(1-3)	55uH±10%	at 250kHz,0.1Vrms
LK-Inductance	LK(1-3) Tie other	0.6uH MAX.	at 250kHz,0.1Vrms
DCR	R(1-3)	55mΩ MAX.	at 25℃
	R(5-4)	24mΩ MAX.	
	R(10,9-6,7)	10mΩ MAX.	
Turns Ratio	(1-3):(10,9-6,7):(5-4)	1:0.428:0.428;±3%	at 250kHz,0.1Vrms
Hi-Pot	Pri.TO Sec.	2500VDC	5mA.3Sec
	Pri.TO Aux.	800VAC	
	Win. TO Core	800VAC	

EFD25 - 514 Product Specification

1.Physical Dimensions (Unit:mm)

Top view   Side view   Front View   Bottom view

A 27.0MAX.
B 32.8MAX.
C 15.5MAX.
D 1.0±0.1
E 4.0±0.3

Notes:

(1).Marking type is laser printing

(2).YY: Year Code; WW: Week Code

(3). ⊠ :When making samples, S is used to represent the product is a sample

(4). ⊠ :Use different letters or numbers to represent the products are produced from different production lines

(5).Size B not including soldering tags

(6).Coplanarity Requirement: Less than 0.15mm

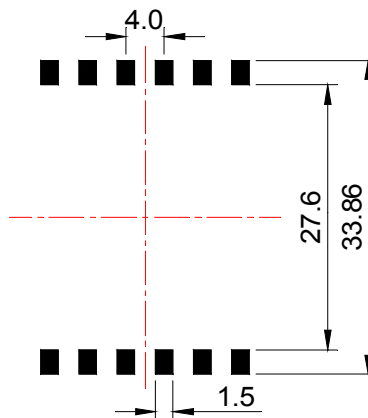(7).Add epoxy to the center column of the cores

2. Connection
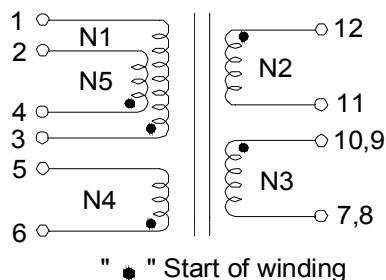
" • " Start of winding

*Customer to tie terminals 1&2,3&4, 7&8 and 9&10 on PC board.

*Application of the transformer allows for the leadwires between terminals 1&2,3&4,7&8 and 9&10 to solder bridge.

3.Recommended Pad Layout (Unit:mm)

Items	Winding	Specifications	Test Conditions
Inductance	L(3,4-1,2)	55uH±10%	at 250kHz,1V
LK-Inductance	LK(3,4-1,2) Tie 7,8,9,10,11,12	1.0uH MAX.	at 250kHz,1V
DCR	R(3,4-1,2)	80mΩ MAX.	at 25℃
	R(10,9-7,8)	12mΩ MAX.	
	R(6-5)	120mΩ MAX.	
	R(12-11)	120mΩ MAX.	
Turns Ratio	(3,4-1,2):(10,9-7,8):(6-5):(12-11)	18:6:5:5;±3%	at 250kHz,1V
Hi-Pot	PRI.TO SEC.	1500VAC	5mA.3Sec
	WIN. TO CORE	500VAC	5mA.3Sec