



# DSL LINE ISOLATION TRANSFORMERS THRU HOLE OR SMD

Parts are UL1950 & CSA-950 Recognized under UL File# E162344  
or are pending

- ① Thru hole or SMD Package
- ② 1500Vrms Minimum Isolation Voltage
- ③ UL, IEC & CSA Insulation system
- ④ Extended Temperature Range Version

**ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE -40°C TO +85°C**

| PART NUMBER | Ratio (SEC:PRI ± 3%) | Primary OCL (mHTYP.) | PRI - SEC L <sub>L</sub> (mH Max.) | DCR (W Max) |      | Package / Schematic | IC Manufacture | IC P/N      |
|-------------|----------------------|----------------------|------------------------------------|-------------|------|---------------------|----------------|-------------|
|             |                      |                      |                                    | PRI         | SEC  |                     |                |             |
| PM-DSL10    | 1 : 2.0              | 12.5                 | 40.0                               | 4.0         | 2.0  | EP13/G              |                |             |
| PM-DSL11    | 1 : 2.0              | 12.5                 | 40.0                               | 4.0         | 2.0  | EP13/AC             |                |             |
| PM-DSL11G   | 1 : 2.0              | 12.5                 | 40.0                               | 4.0         | 2.0  | EP13G/AC            |                |             |
| PM-DSL12    | 1 : 2.0              | 16.5                 | 20.0                               | 3.0         | 1.0  | EP13/AD             | Globespan      |             |
| PM-DSL13    | 1 : 1.0              | 5.0                  | 16                                 | 1.5         | 1.65 | EP13/I              |                |             |
| PM-DSL13G   | 1 : 1.0              | 5.0                  | 16                                 | 1.5         | 1.65 | EP13G/I             |                |             |
| PM-DSL14    | 1 : 2.0              | 12.5                 | 18.0                               | 2.1         | 1.5  | EP13/D              | Globespan      |             |
| PM-DSL15    | 1 : 1.5              | 2.25                 | 30.0                               | 3.63        | 3.36 | EP13/E              |                |             |
| PM-DSL16    | 1 : 3.0              | 2.25                 | 30.0                               | 3.63        | 1.0  | EP13/C              |                |             |
| PM-DSL17    | 1 : 1.0              | 1.0                  | 12.0                               |             |      | R/F                 |                |             |
| PM-DSL18    | 1 : 2.0oct           | 1.0                  | 12.0                               |             |      | R/F                 |                |             |
| PM-DSL19    | 1 : 2.0              | 3.0                  | 30.0                               | 2.5         | 1.0  | EP13/A              | Brooktree      | BT8970      |
| PM-DSL20    | 1 : 1.0              | 0.43                 | 10.0                               | .45         | .35  | EP13/B              |                |             |
| PM-DSL20G   | 1 : 1.0              | 0.43                 | 10.0                               | .45         | .35  | EP13G/B             |                |             |
| PM-DSL21G   | 1 : 2.0              | 3.0                  | 11.0                               | 2.5         | 1.6  | EP13G/A             | Brooktree      | BT8970      |
| PM-DSL22G   | 1 : 1.5              | 2.25                 | 30.0                               | 3.3         | 3.05 | EP13G/C             |                |             |
| PM-DSL23    | 1 : 2.0              | 2.0                  | 30.0                               | 2.5         | 1.25 | EP13/A              | Brooktree      | BT8921/8970 |
| PM-DSL24    | 1 : 2.0              | 2.0                  | 11.0                               | 2.5         | 1.0  | EP13/A              | Brooktree      | BT8921/8970 |
| PM-DSL24G   | 1 : 2.0              | 2.0                  | 11.0                               | 2.5         | 1.0  | EP13G/A             | Brooktree      | BT8921/8970 |
| PM-DSL25    | 1 : 2.0              | 3.0                  | 11.0                               | 2.5         | 1.0  | EP13/A              | Brooktree      | BT8921/8970 |
| PM-DSL25G   | 1 : 2.0              | 3.0                  | 11.0                               | 2.5         | 1.0  | EP13G/A             | Brooktree      | BT8921/8970 |
| PM-DSL26    | 1 : 2.0              | 3.5                  |                                    | 2.5         | 1.0  | EP13/A              | Brooktree      | BT8960      |
| PM-DSL26G   | 1 : 2.0              | 3.5                  |                                    | 2.5         | 1.0  | EP13G/A             | Brooktree      | BT8960      |
| PM-DSL27    | 1 : 2.0              | 8.0                  |                                    | 4           | 2.3  | EP13/A              | Brooktree      | BT8960      |
| PM-DSL27G   | 1 : 2.0              | 8.0                  |                                    | 4           | 2.3  | EP13G/A             | Brooktree      | BT8960      |
| PM-DSL28    | 1 : 2.0              | 5.0                  | 30.0                               | 3.5         | 2.2  | EP13/A              | Brooktree      | BT8960      |
| PM-DSL28G   | 1 : 2.0              | 5.0                  | 30.0                               | 3.5         | 2.2  | EP13G/A             | Brooktree      | BT8960      |
| PM-DSL29    | 1 : 2.0              | 4.5                  | 30.0                               | 3.0         | 1.0  | EP13/A              | Brooktree      | BT8960      |
| PM-DSL29G   | 1 : 2.0              | 4.5                  | 30.0                               | 3.0         | 1.0  | EP13G/A             | Brooktree      | BT8960      |
| PM-DSL30    | 1 : 2.0              | 2.5                  | 20.0                               | 3.5         | 1.1  | EP13/A              | Brooktree      | BT8960      |
| PM-DSL30G   | 1 : 2.0              | 2.5                  | 20.0                               | 3.5         | 1.1  | EP13G/A             | Brooktree      | BT8960      |
| PM-DSL31    | 1 : 2.0              | 5.8                  | 20.0                               | 2.6         | 1.0  | EP13/A              | Brooktree      | BT8970      |
| PM-DSL31G   | 1 : 2.0              | 5.8                  | 20.0                               | 2.6         | 1.0  | EP13G/A             | Brooktree      | BT8970      |
| PM-DSL32    | 1 : 2.0              | 4.4                  | 11.0                               | 2.6         | 1.0  | EP13/A              | Brooktree      | BT8970      |
| PM-DSL32G   | 1 : 2.0              | 4.4                  | 11.0                               | 2.6         | 1.0  | EP13G/A             | Brooktree      | BT8970      |
| PM-DSL33    | 1 : 1.0              | 3.0                  | 20.0                               | 2.0         | 1.9  | EP13/A              | Brooktree      | BT8952      |
| PM-DSL33G   | 1 : 1.0              | 3.0                  | 20.0                               | 2.0         | 1.9  | EP13G/A             | Brooktree      | BT8952      |
| PM-DSL34    | 1 : 1.0              | 2.0                  | 20.0                               | 2.0         | 1.9  | EP13/A              | Brooktree      | BT8952      |
| PM-DSL34G   | 1 : 1.0              | 2.0                  | 20.0                               | 2.0         | 1.9  | EP13G/A             | Brooktree      | BT8952      |
| PM-DSL35    | 1 : 2.0              | 3.0                  | 20.0                               | 2.5         | 1.0  | EP13/A              | Burr Brown     | AFC1124     |

Specifications subject to change without notice.

pm-dslxx 01/02



# DSL LINE ISOLATION TRANSFORMERS THRU HOLE OR SMD

**ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE -40°C TO +85°C**

| PART NUMBER | Ratio (SEC:PRI)<br>± 3% | Primary OCL (mH TYP.) | PRI - SEC L <sub>p</sub> (mH Max.) | DCR (W Max) |      | Package / Schematic | IC Manufacture | IC P/N        |
|-------------|-------------------------|-----------------------|------------------------------------|-------------|------|---------------------|----------------|---------------|
|             |                         |                       |                                    | PRI         | SEC  |                     |                |               |
| PM-DSL35G   | 1 : 2.0                 | 3.0                   | 20.0                               | 2.5         | 1.0  | EP13G/A             | Burr Brown     | AFC1124       |
| PM-DSL36    | 1 : 1.8                 | 2.95                  | 11.0                               | 3.2         | 1.8  | EP13/A              | Burr Brown     | AFC1124       |
| PM-DSL36G   | 1 : 1.8                 | 2.95                  | 11.0                               | 3.2         | 1.8  | EP13G/A             | Burr Brown     | AFC1124       |
| PM-DSL37G   | 1 : 1.08                | 0.480                 | 10.0                               | 0.45        | 0.35 | EP13G/I             | Alcatel        | MTK-20140     |
| PM-DSL38G   | 1 : 2.0                 | 0.530                 | 25.0                               | 3.3         | 1.4  | EP7G/J              | Globespan      | DLC           |
| PM-DSL39    | 1 : 4.0                 | 2.0                   | 30.0                               | 4.0         | 0.3  | EP13/A              |                |               |
| PM-DSL39G   | 1 : 4.0                 | 2.0                   | 30.0                               | 4.0         | 0.3  | EP13G/A             |                |               |
| PM-DSL40    | 1 : 2.0                 | 0.800                 | 10.0                               | 1.5         | 0.8  | EP13/D              |                |               |
| PM-DSL41    | 1 : 4.0                 | 2.0                   | 20.0                               | 5.0         | 0.5  | EP10/X              | Globespan      |               |
| PM-DSL41G   | 1 : 4.0                 | 2.0                   | 20.0                               | 5.0         | 0.5  | EP10G/X             | Globespan      |               |
| PM-DSL42    | 1 : 4.0                 | 2.0                   | 30.0                               | 2.4         | 0.25 | EP13/C              | Globespan      |               |
| PM-DSL43    | 1 : 4.0                 | 4.0                   | 30.0                               | 4.0         | 0.4  | EP13/C              | Globespan      |               |
| PM-DSL44    | 1 : 3.1                 | 3.0                   | 30.0                               | 5.0         | 0.5  | EP13/K              | Globespan      |               |
| PM-DSL45    | 1 : 4.0                 | 3.0                   | 30.0                               | 5.0         | 1.0  | EP13/K              | Globespan      |               |
| PM-DSL46    | 1 : 4.0                 | 4.0                   | 30.0                               | 6.0         | 0.5  | EP13/L              | Globespan      |               |
| PM-DSL47    | 1 : 1.41                | 0.800                 | 10.0                               | 1.4         | 1.7  | EP13/D              |                |               |
| PM-DSL48    | 1 : 1.8                 | 2.75                  | 50.0                               | 6.0         | 3.2  | P18-11/M            | Brooktree/LV1  | SK70704/6     |
| PM-DSL49G   | 1 : 1.0                 | 0.470                 | 10.0                               | 0.6         | 0.7  | EP13G/I             |                |               |
| PM-DSL50    | 1 : 5.0                 | 2.0                   | 1.0                                | 1.4         | 0.35 | EP13/L              |                |               |
| PM-DSL51G   | 1 : 4.0                 | 2.0                   | 17.0                               | 3.0         | 0.35 | EP13G/L             | Globespan      |               |
| PM-DSL53    | 1 : 1.0                 | 200                   | 36                                 | 10          | 5    | EP13/B              | Level One      | LXT400/441    |
| PM-DSL53G   | 1 : 1.0                 | 200                   | 36                                 | 10          | 5    | EP13G/B             | Level One      | LXT400/441    |
| PM-DSL54    | 1 : 1.0                 | 200                   | 60                                 | 8.0         | 16   | EP13/N              | Level One      | LXT400/441    |
| PM-DSL54G   | 1 : 1.0                 | 200                   | 60                                 | 8.0         | 16   | EP13G/N             | Level One      | LXT400/441    |
| PM-DSL55    | 1 : 1.0                 | 40                    | 40                                 | 8.0         | 8.0  | EP7/M               | Level One      | LXT441        |
| PM-DSL55G   | 1 : 1.0                 | 40                    | 40                                 | 8.0         | 8.0  | EP7/M               | Level One      | LXT/441       |
| PM-DSL56    | 1 : 2.0                 | .410                  | 10                                 | .84         | .40  | EP13/B              | Alcatel        | MTK-20150/140 |
| PM-DSL56G   | 1 : 2.0                 | .410                  | 10                                 | .84         | .40  | EP13G/B             | Alcatel        | MTK-20150/140 |
| PM-DSL57    | 1 : 1.0                 | .440                  | 10                                 | 1.2         | 1.0  | EP13/B              | Alcatel        | MTK-20141     |
| PM-DSL58    | 1 : 1.0                 | .50                   |                                    | 1.65        | 1.65 | EP7/O               | Alcatel        | 1AB071110008  |
| PM-DSL59    | 1 : 1.0                 | .24                   |                                    | .70         | .70  | EP13/P              | Alcatel        | 1AB01965-0026 |
| PM-DSL60    | 1 : 2.0                 | 1.50                  | 12                                 | 2.0         | .55  | EP13/Q              | Texas          | THS6012       |
| PM-DSL61    | 1 : 1.2                 | 4.0                   | 15                                 | 5.5         | 5.5  | EP13/R              | Motorola       | XS143462SK1   |
| PM-DSL61G   | 1 : 1.2                 | 4.0                   | 15                                 | 5.5         | 5.5  | EP13G/R             | Motorola       | XS143462SK1   |
| PM-DSL62    | 1 : 1.0                 | .40                   | 10                                 | 1.4         | 1.3  | EP13/I              | Alcatel        | MTK-20141     |
| PM-DSL62G   | 1 : 1.0                 | .40                   | 10                                 | 1.4         | 1.3  | EP13G/I             | Alcatel        | MTK-20141     |
| PM-DSL63    | 1 : 1.42                | 1.5                   | 18                                 | 4.0         | .75  | EP13/Q              | Texas          | TNETD4000R    |
| PM-DSL64    | 1 : 1.8                 | 3.0                   | 30                                 | 3.0         | 2.2  | EP13/S              | Level One      | SK70704/706/  |
| PM-DSL64G   | 1 : 1.8                 | 3.0                   | 30                                 | 3.0         | 2.2  | EP13G/S             | Level One      | SK70704/706/  |
|             |                         |                       |                                    |             |      |                     |                | 725/721       |
| PM-DSL65    | 1 : 1.0                 | 1.25                  | 12                                 | 1.3         | 1.3  | EP13/B              | Lucent         | LEO1          |
| PM-DSL66    | 1 : 1.27                | 18                    | 12                                 | 1.3         | .85  | EP13/T              | Analog Devices | AD20msp918    |
| PM-DSL67    | 1 : 1.41                | .475                  | 10                                 | 1.1         | .90  | EP13/T              | Globespan      | DMT IC        |
| PM-DSL67G   | 1 : 1.41                | .475                  | 10                                 | 1.1         | .90  | EP13G/T             | Globespan      | DMT IC        |

Specifications subject to change without notice.

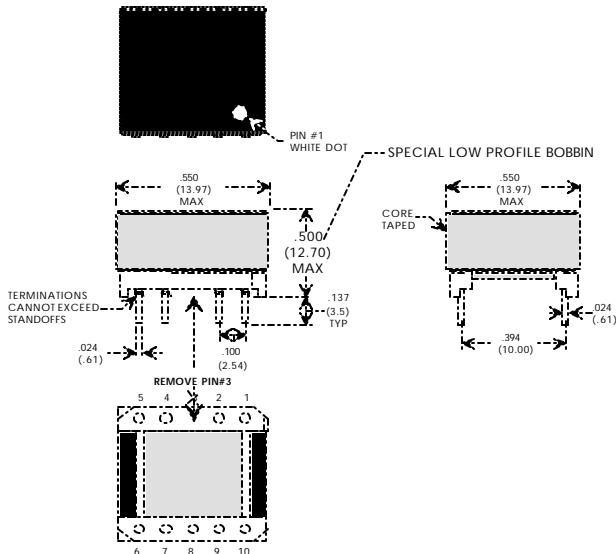
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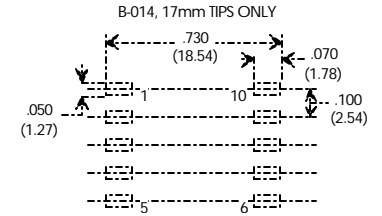
## MECH. PKG. "EP13"

DIMENSIONS IN INCH (mm)

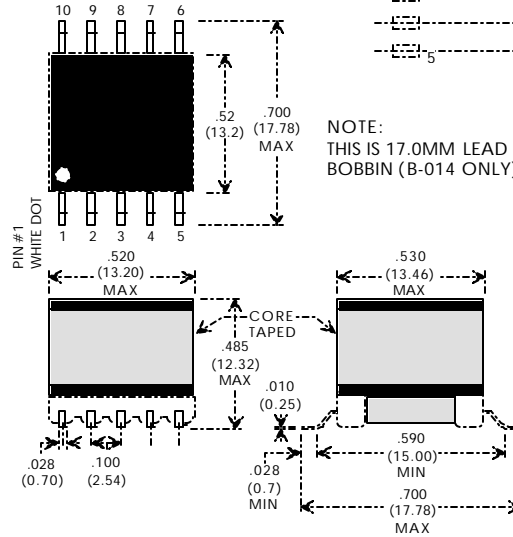


## MECH. PKG. "EP13G"

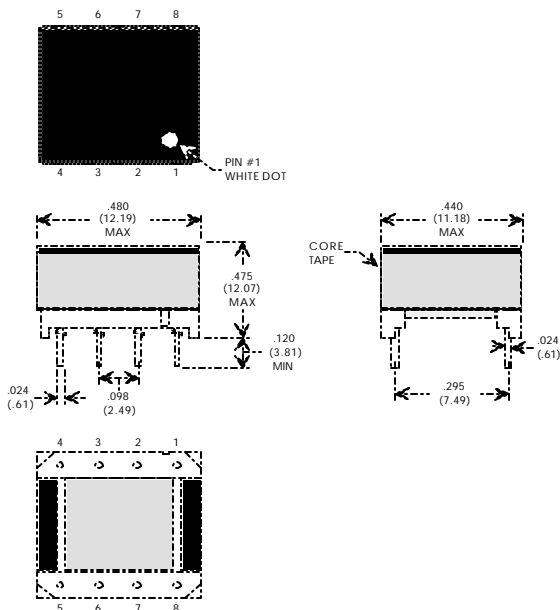
RECOMMENDED PCB LAYOUT  
DIMENSION IN INCHES, (mm)



NOTE:  
THIS IS 17.0MM LEAD TIP  
BOBBIN (B-014 ONLY)

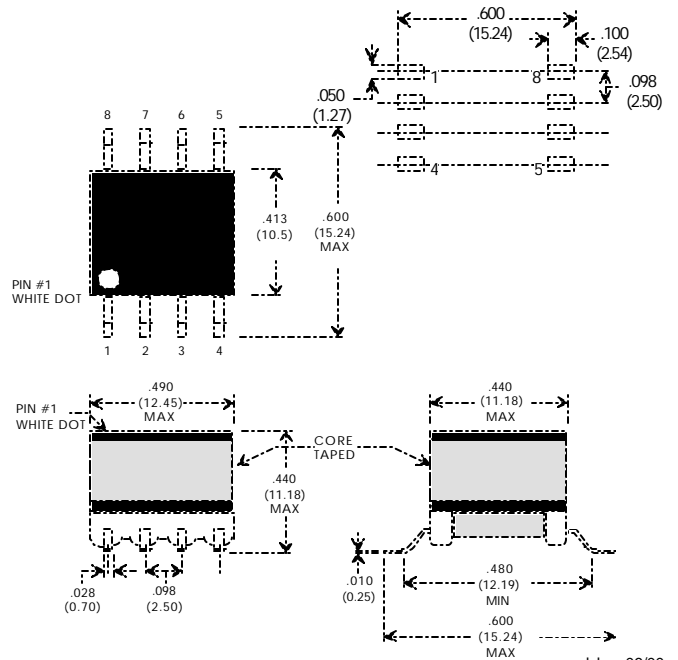


## MECH. PKG. "EP10"



## MECH. PKG. "EP10G"

RECOMMENDED PCB LAYOUT  
DIMENSION IN INCHES, (mm)

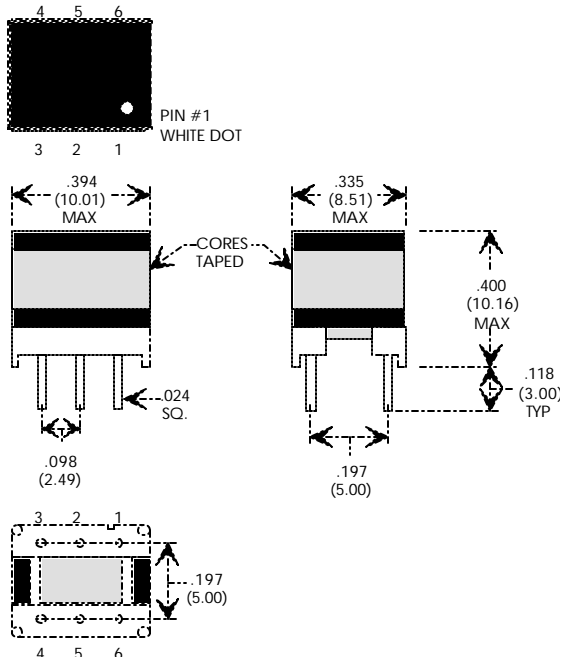


Specifications subject to change without notice.

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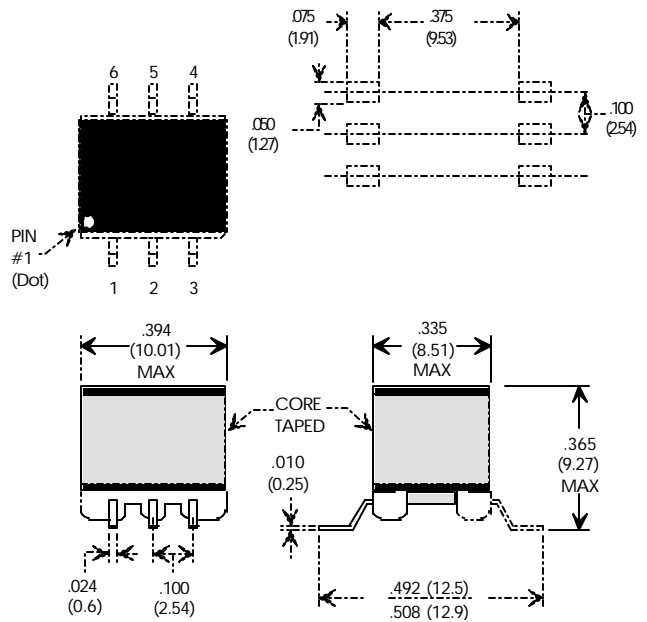
# DSL LINE ISOLATION TRANSFORMERS THRU HOLE OR SMD

## MECH. PKG. "EP7"



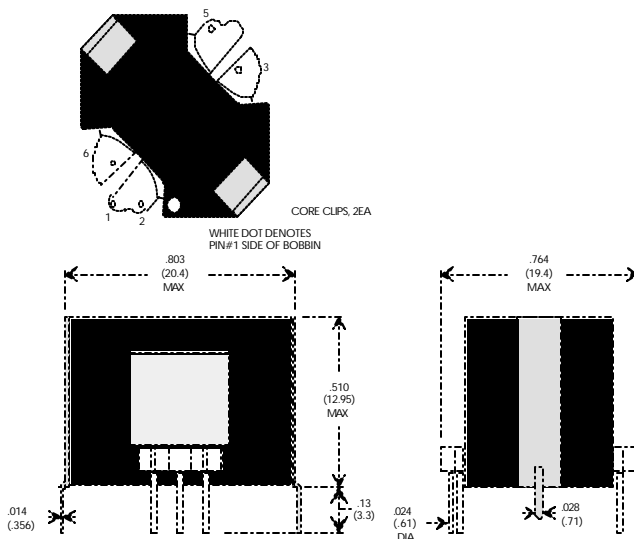
## MECH. PKG. "EP7G"

### RECOMMENDED PCB LAYOUT DIMENSION IN INCHES. (mm)

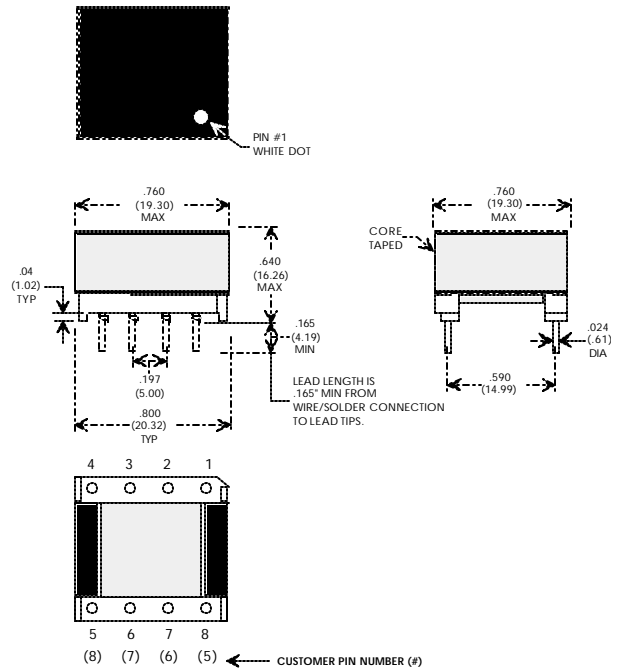


## MECH. PKG. "R"

### DIMENSIONS IN INCH (mm)

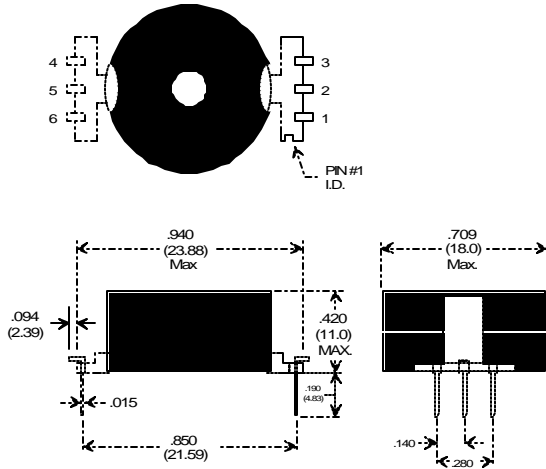


## MECH. PKG. "EP17"

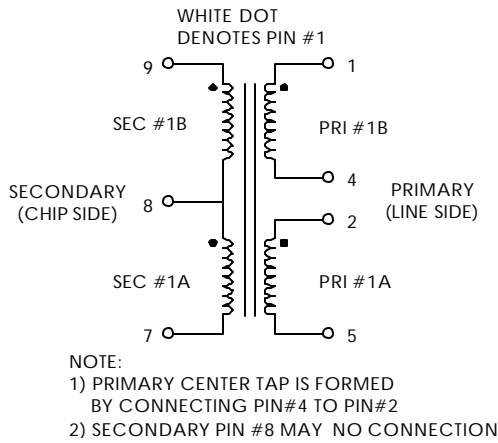


**MECH. PKG. "P18/11"**

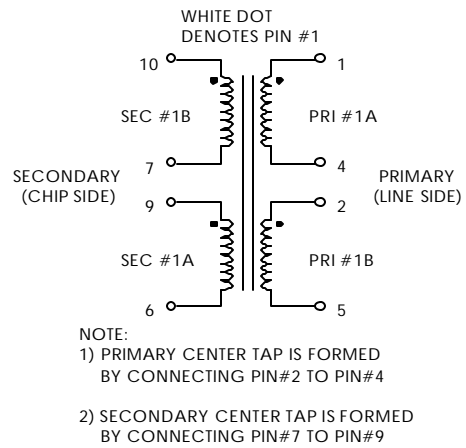
**MECH. PKG. "P18/11"**



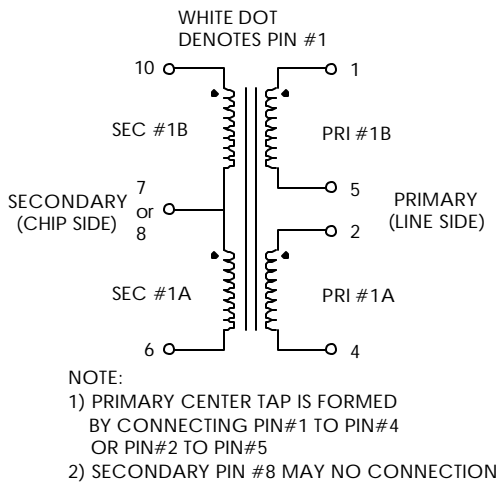
## PM-DSLxx SCHEMATIC "A"



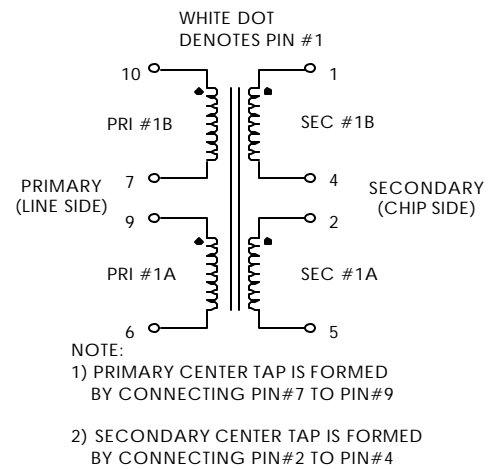
## PM-DSLxx SCHEMATIC "B"



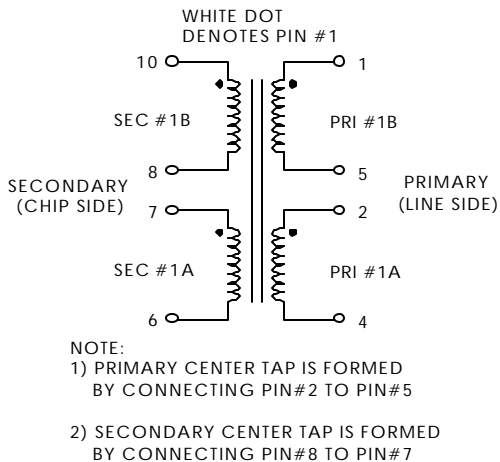
## PM-DSLxx SCHEMATIC "C"



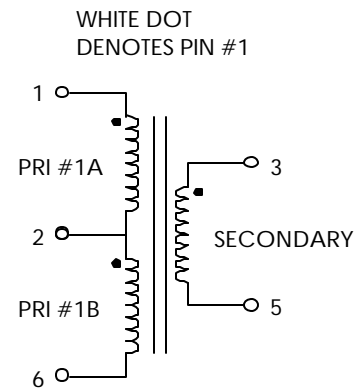
## PM-DSLxx SCHEMATIC "D"



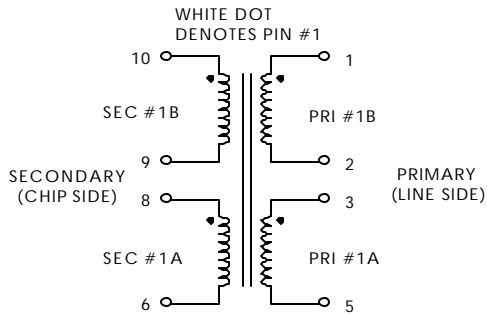
## PM-DSLxx SCHEMATIC "E"



## PM-DSLxx SCHEMATIC "F"

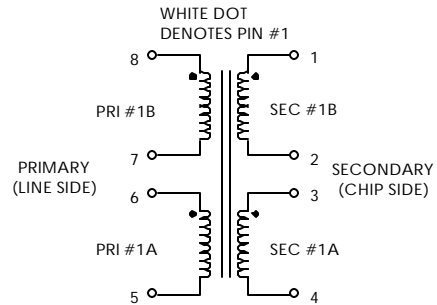


## PM-DSLxx SCHEMATIC "G"



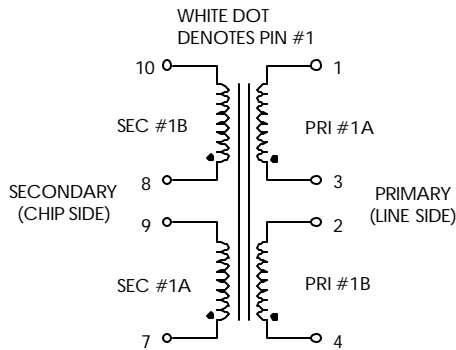
- NOTE:
- 1) PRIMARY CENTER TAP IS FORMED BY CONNECTING PIN#2 TO PIN#3
  - 2) SECONDARY CENTER TAP IS FORMED BY CONNECTING PIN#9 TO PIN#8

## PM-DSLxx SCHEMATIC "H"



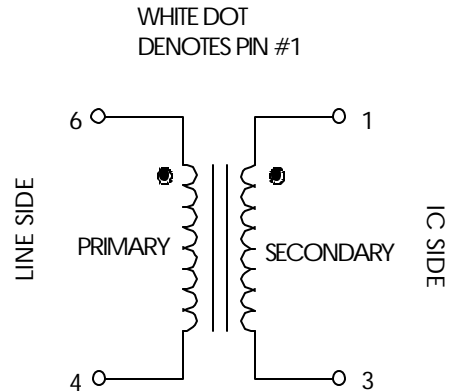
- NOTE:
- 1) PRIMARY CENTER TAP IS FORMED BY CONNECTING PIN#6 TO PIN#7
  - 2) SECONDARY CENTER TAP IS FORMED BY CONNECTING PIN#2 TO PIN#3

## PM-DSLxx SCHEMATIC "I"

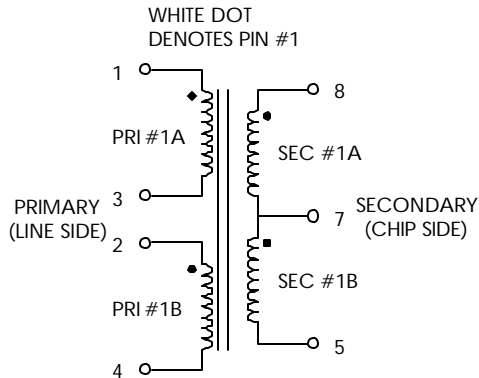


- NOTE:
- 1) PRIMARY CENTER TAP IS FORMED BY CONNECTING PIN#2 TO PIN#4
  - 2) SECONDARY CENTER TAP IS FORMED BY CONNECTING PIN#7 TO PIN#9

## PM-DSLxx SCHEMATIC "J"

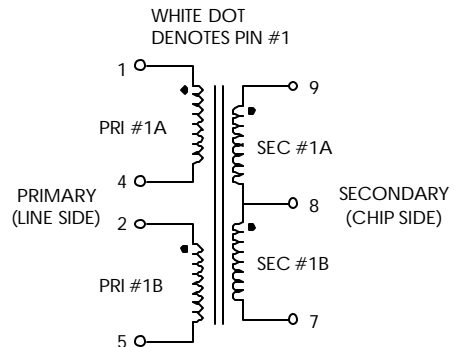


## PM-DSLxx SCHEMATIC "K"



- NOTE:
- 1) PRIMARY CENTER TAP IS FORMED BY CONNECTING PIN#2 TO PIN#3

## PM-DSLxx SCHEMATIC "L"



- NOTE:
- 1) PRIMARY CENTER TAP IS FORMED BY CONNECTING PIN#2 TO PIN#4
  - 2) SECONDARY PIN #8 MAY NO CONNECTION

Specifications subject to change without notice.

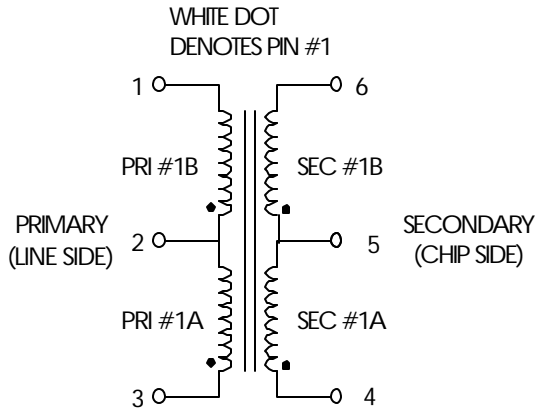
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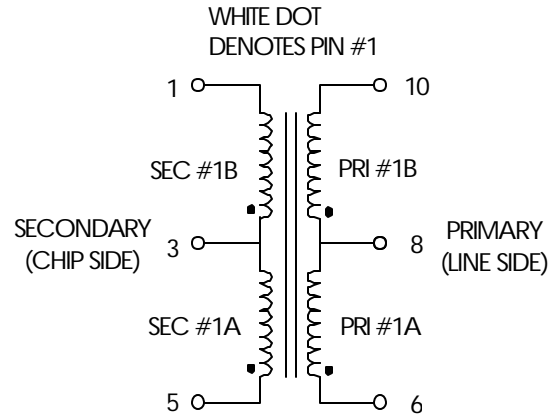
# DSL LINE ISOLATION TRANSFORMERS

## THRU HOLE OR SMD

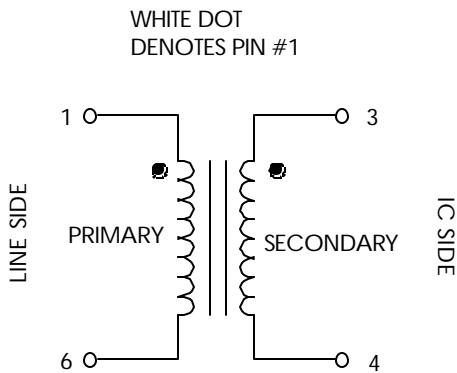
**PM-DSLxx SCHEMATIC "M"**



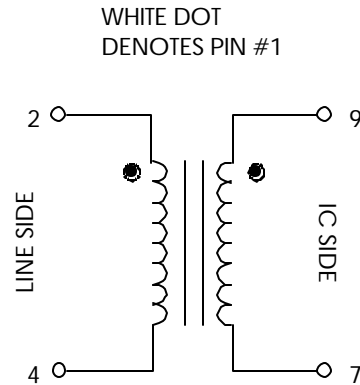
**PM-DSLxx SCHEMATIC "N"**



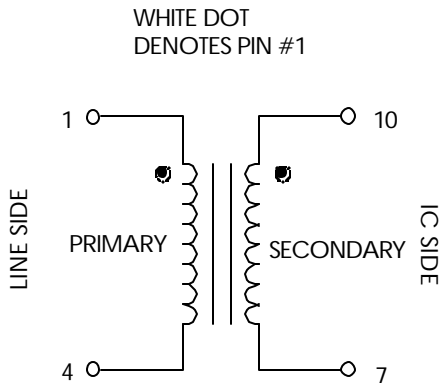
**PM-DSLxx SCHEMATIC "O"**



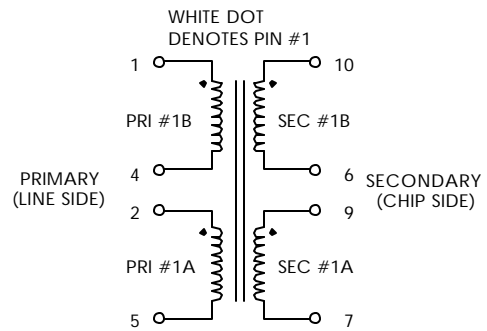
**PM-DSLxx SCHEMATIC "P"**



**PM-DSLxx SCHEMATIC "Q"**

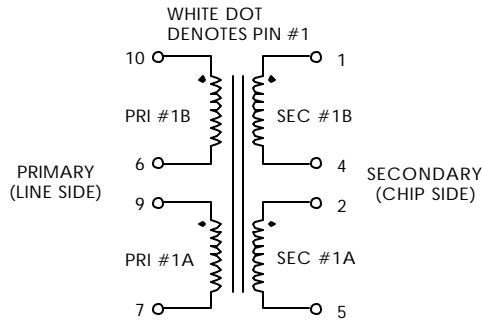


**PM-DSLxx SCHEMATIC "R"**



- NOTE:
- 1) PRIMARY CENTER TAP IS FORMED BY CONNECTING PIN#2 TO PIN#4
  - 2) SECONDARY CENTER TAP IS FORMED BY CONNECTING PIN#6 TO PIN#9

## PM-DSLxx SCHEMATIC "S"

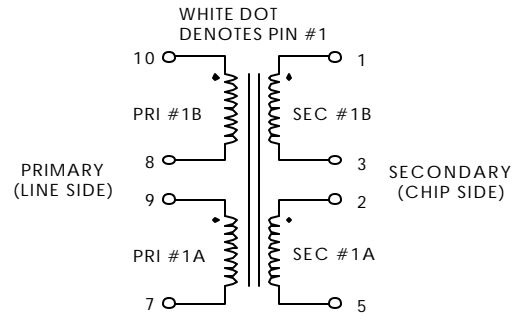


NOTE:

1) PRIMARY CENTER TAP IS FORMED  
BY CONNECTING PIN#6 TO PIN#9

2) SECONDARY CENTER TAP IS FORMED  
BY CONNECTING PIN#2 TO PIN#4

## PM-DSLxx SCHEMATIC "T"

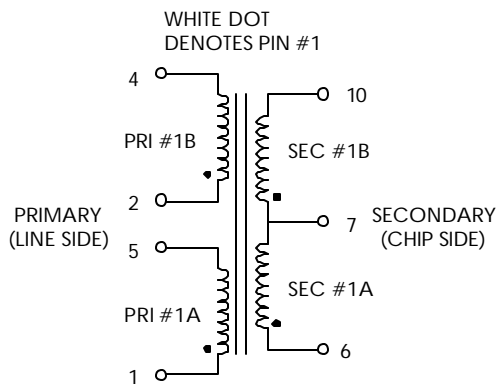


NOTE:

1) PRIMARY CENTER TAP IS FORMED  
BY CONNECTING PIN#8 TO PIN#9

2) SECONDARY CENTER TAP IS FORMED  
BY CONNECTING PIN#2 TO PIN#3

## PM-DSLxx SCHEMATIC "U"

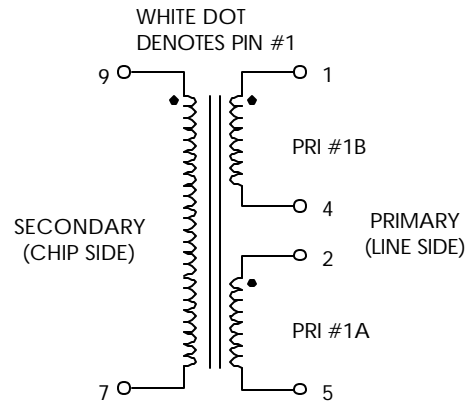


NOTE:

1) PRIMARY CENTER TAP IS FORMED  
BY CONNECTING PIN#2 TO PIN#5

2) SECONDARY PIN #7 MAY NO CONNECTION

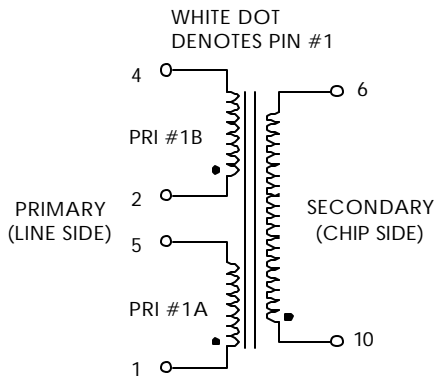
## PM-DSLxx SCHEMATIC "V"



NOTE:

1) PRIMARY CENTER TAP IS FORMED  
BY CONNECTING PIN#4 TO PIN#2

## PM-DSLxx SCHEMATIC "W"

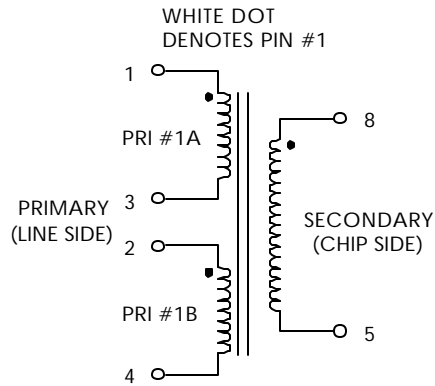


NOTE:

1) PRIMARY CENTER TAP IS FORMED  
BY CONNECTING PIN#2 TO PIN#5

Specifications subject to change without notice.

## PM-DSLxx SCHEMATIC "X"

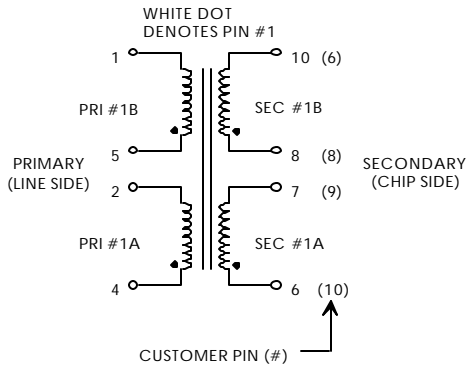


NOTE:

1) PRIMARY CENTER TAP IS FORMED  
BY CONNECTING PIN#2 TO PIN#3

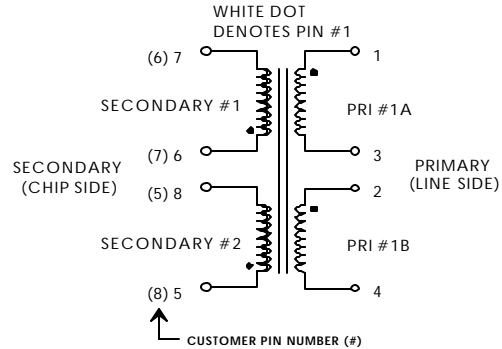
pm-dslxx 06/00

## PM-DSLxx SCHEMATIC "Y"



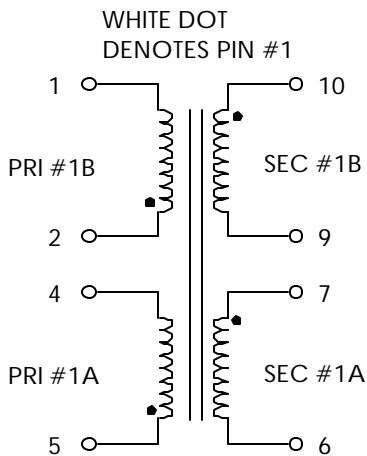
NOTE:  
1) PRIMARY CENTER TAP IS FORMED BY CONNECTING PIN#5 TO PIN#2

## PM-DSLxx SCHEMATIC "Z"

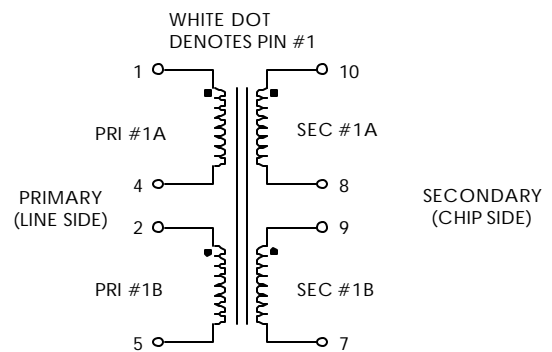


NOTE:  
1) PRIMARY CENTER TAP IS FORMED BY CONNECTING PIN#2 TO PIN#3

## PM-DSLxx SCHEMATIC "AA"

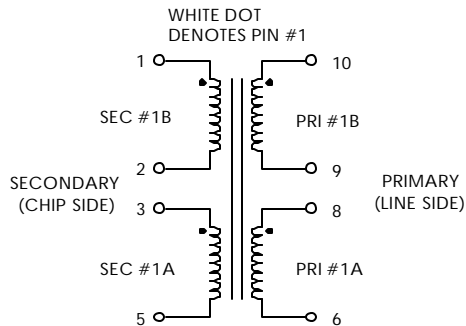


## PM-DSLxx SCHEMATIC "AB"



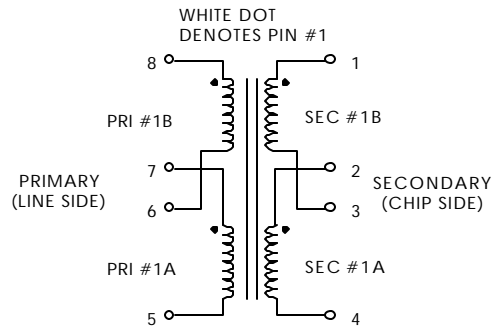
NOTE:  
1) PRIMARY CENTER TAP IS FORMED BY CONNECTING PIN#4 TO PIN#2

## PM-DSLxx SCHEMATIC "AC"



NOTE:  
1) PRIMARY CENTER TAP IS FORMED BY CONNECTING PIN#9 TO PIN#8  
2) SECONDARY CENTER TAP IS FORMED BY CONNECTING PIN#2 TO PIN#3

## PM-DSLxx SCHEMATIC "AD"



NOTE:  
1) PRIMARY CENTER TAP IS FORMED BY CONNECTING PIN#6 TO PIN#7  
2) SECONDARY CENTER TAP IS FORMED BY CONNECTING PIN#2 TO PIN#3

