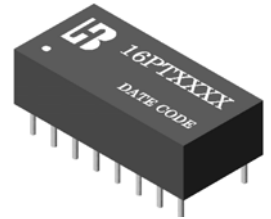


10/100 BASE PULSE TRANSFORMERS (DIP)

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- Designed for 10/100 MB/s transmission over UTP-5 cable
- Tested and qualified for use with national semiconductor's DP83840 Ethernet 10/100 PHY chip
- Cable interface for isolation and low common mode emissions.
- 16-pin dip package for economic cost
- Storage temperature range: -40°C to +100°C



Electrical Specifications @25°C Operating Temperature range: 0°C to +70°C

Isolation Voltage : 1500Vrms, OCL:350 uH Min 8mA/DC Bias,

Rise time(10-90%): 2.5ns Typ “*” Rise time(10-90%):3.0 ns typ

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)					Cross talk (dB Min)		Differential to Common Mode Rejection(dB Min) TX/RX	
	0.3~100MHz	30MHz	40MHz	50MHz	60MHz	80MHz	0.3-60MH z	60-100MH z	0.3-60 MHz	60-100 MHz
16PT8510	-1.15	-16	-14	-13.5	-13	-12	-40	-38	-45/-40	-40/-35
16PT8510A	-1.15	-16	-14	-13.5	-13	-12	-40	-38	-45/-40	-40/-35
16PT8510X	-1.15	-16	-14	-13.5	-13	-12	-40	-38	-45/-40	-40/-35
16PT8515	-1.15	-16	-14	-13.5	-13	-12	-40	-38	-42/-40	-40/-35
16PT8515-4	-1.15	-16	-14	-13.5	-13	-12	-40	-38	-42/-40	-40/-35
16PT8520	-1.1	-16	-15	-13	-11		-38		-	-
16PT8520X	-1.1	-16	-15	-13	-11		-38		-	-

Part Number	Turn Ratio (±5%)		L.L (uH Min)		CW/W(pF Max)		Common mode rejection TX/RX (dB Min)		Mechanical Number
	Transmit	Receive	TX	RX	TX	RX	0.3-60MHz	60-100MHz	
16PT8510	1CT:1CT	1CT:1CT	-	-	-	-	-	-	DP2
16PT8510A	1CT:1CT	1CT:1CT	-	-	-	-	-	-	DP2
16PT8510X	1CT:1CT	1CT:1CT	-	-	-	-	-	-	DP5
16PT8515	1CT:1	1CT:1CT	-	-	-	-	-	-	DP1
16PT8515-4	1CT:1CT	1CT:1CT	-	-	-	-	-	-	DP1
16PT8520	1CT:1CT	1:1	0.6		28		-40		DP3
16PT8520X	1CT:1CT	1CT:1CT	0.6		50		-40		DP4

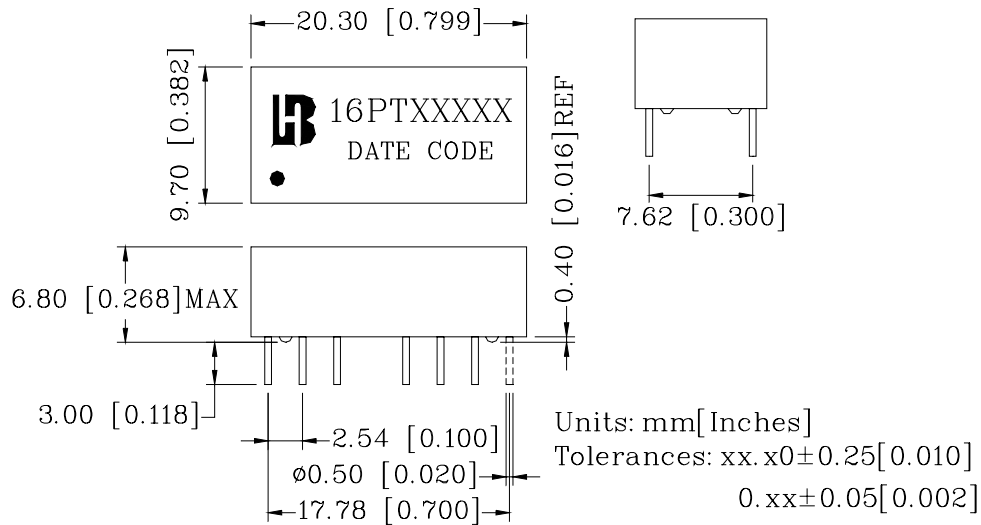
Mechanicals

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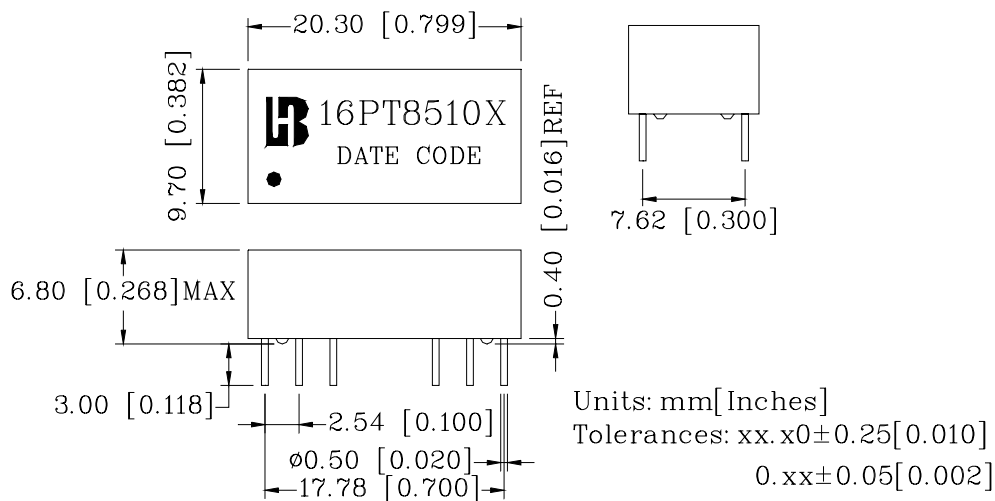
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DP1



DP2



DP3

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20.30 [0.799]
 9.70 [0.382]
 16PT8520
 DATE CODE
 6.80 [0.268] MAX
 0.40 [0.016] REF
 7.62 [0.300]
 3.00 [0.118]
 2.54 [0.100]
 $\varnothing 0.50$ [0.020]
 17.78 [0.700]

Units: mm[Inches]
 Tolerances: xx.x0 $\pm$ 0.25[0.010]
 0.xx $\pm$ 0.05[0.002]

20.30 [0.799]
 9.70 [0.382]
 16PT8520X
 DATE CODE
 0.016 [0.016] REF
 7.62 [0.300]
 6.80 [0.268] MAX
 0.40
 3.00 [0.118]
 2.54 [0.100]
 $\phi 0.50$ [0.020]
 17.78 [0.700]

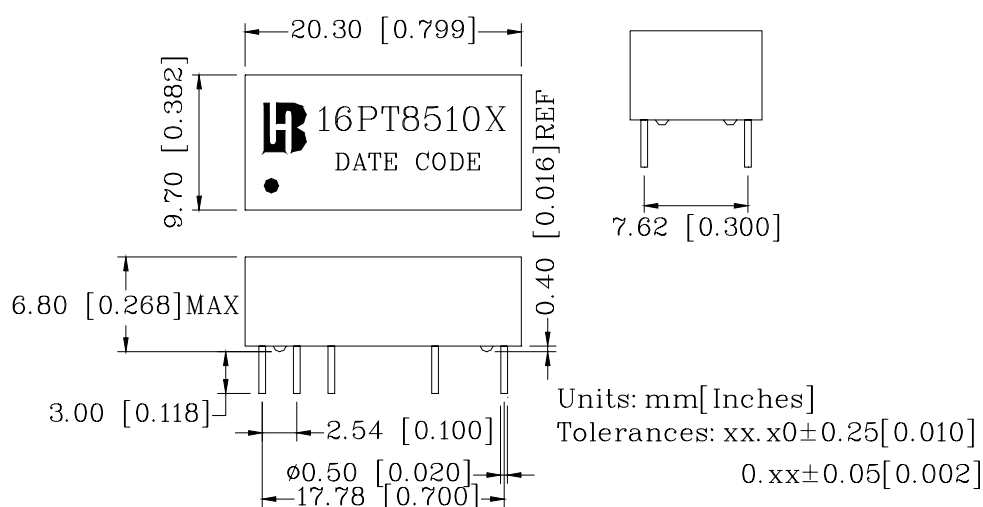
Units: mm [Inches]
 Tolerances: xx.x0 $\pm$ 0.25 [0.010]
 0.xx $\pm$ 0.05 [0.002]

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DP5



Schematics

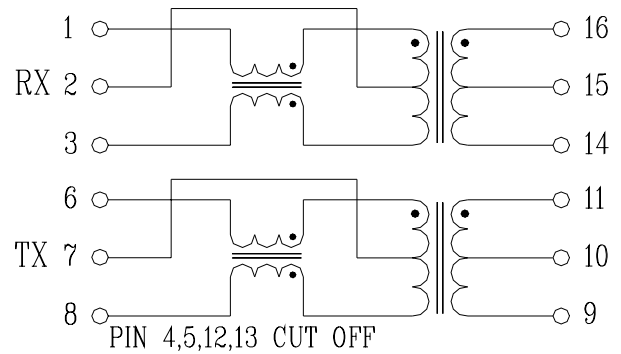
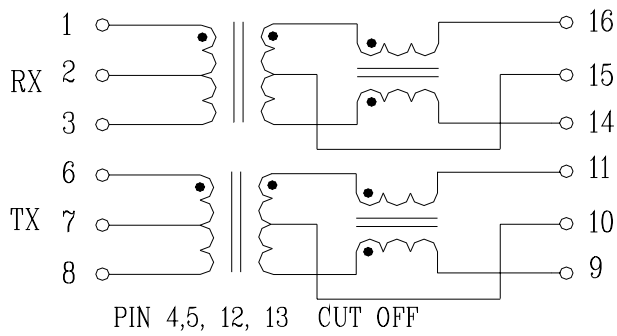
16PT8510

16PT8510A

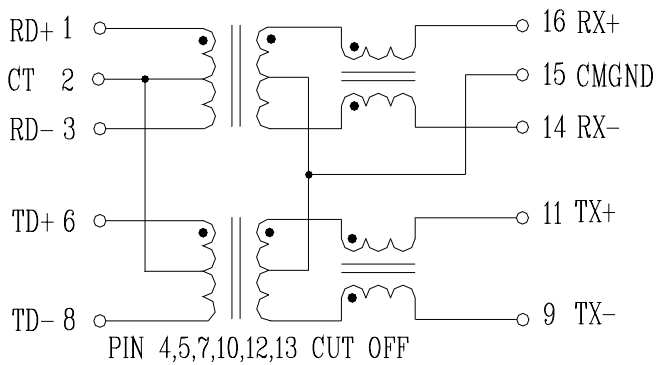
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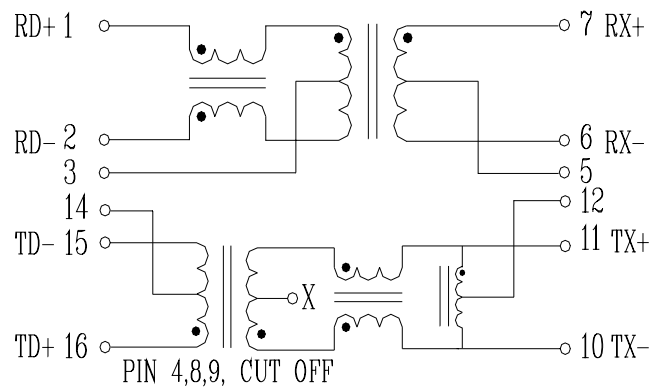
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16PT8510X



16PT8515

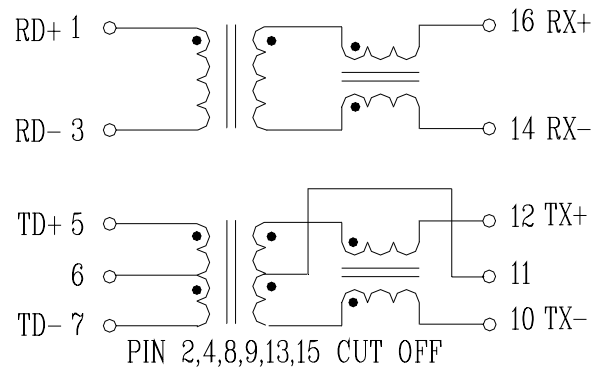
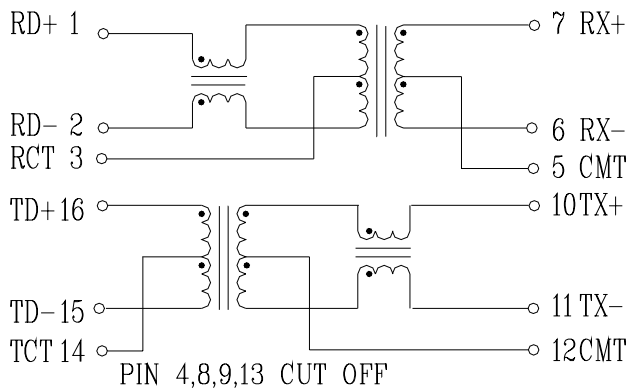


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16PT8520



16PT8520X

