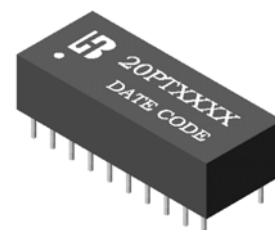


10/100 BASE-TX/DCX/Ethernet PORT TRANSFORMERS MDIX

462 Boston St - Topsfield, MA 01983 - Phone: 978-887-8050 - Fax: 978-887-5434

- IEEE 802.3 Ethernet compatible, 100 BASE-TX
- 20 PIN DIP package compatible with popular IC Chips
- Design for multiport repeater and Ethernet switching HUB Application
- Customer designs available for specific application
- Storage temperature range: -40°C to +100°C.



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

Isolation Voltage : 1500 Vrms

OCL(100KHz, 0.1Vrms with 8mA/DC Bias) : 350 μ H Min.

Leakage Inductance(1MHz) : 0.5 μ H Max.

Cw/w : 50 pF Max.

DCR : 0.9 Ω Max.

Rise Time : 2.5nS Typ.

Part Number	Turns Ratio ($\pm 5\%$)		Insertion Loss (dB Max)	Return Loss (dB Min)			Cross talk (dB Min)	CMRR (dB Min)	Mech.
	Transmit	Receive		0.3~100MHz	0.3-30MHz	30-60MHz			
20PT1021AX	1CT:1CT	1CT:1CT	-1.15	-18	-14	-12	0.3-100 MH	-40	DP1
20PT1021CX	1CT:1CT	1CT:1CT	-1.15	-18	-14	-12	-38	-40	DP1
20PT1021FX	1CT:1CT	1CT:1CT	-1.15	-18	-14	-12	-38	-40	DP1
20PT1021GX	1CT:1CT	1CT:1CT	-1.15	-18	-14	-12	-38	-40	DP1
20PT1021IX	1CT:1CT	1CT:1CT	-1.15	-18	-14	-12	-38	-40	DP1
20PT1021SX	1CT:1CT	1CT:1CT	-1.15	-18	-14	-12	-38	-40	DP2
20PT1021X	1CT:1CT	1CT:1CT	-1.15	-18	-14	-12	-38	-40	DP1
20PT1021X1	1CT:1CT	1CT:1CT	-1.15	-18	-14	-12	-38	-40	DP1
20PT1024SX	1CT:1CT	1CT:1CT	-1.1	-18	-14	-12	-35	-40	DP1
20PT1024X	1CT:1CT	1CT:1CT	-1.1	-18	-14	-12	-38	-40	DP1

Mechanicals

The drawing shows three views of the 20PT1021XX package:

- Top View:** A rectangular package with a width of 25.30 mm [0.996]. The top surface features a logo, the part number "20PT1021XX", and a "DATE CODE". The distance from the top edge to the start of the pins is 6.40 mm [0.252] MAX. The pin pitch is 2.54 mm [0.100]. The total pin length is 22.86 mm [0.900]. The distance from the bottom edge to the start of the pins is 3.00 mm [0.118]. The distance from the top edge to the center of the pins is 10.10 mm [0.398].
- Side View:** Shows the package height of 0.40 mm [0.016] REF.
- End View:** Shows the package width of 7.62 mm [0.300].

 $0.xx \pm 0.05[0.002]$

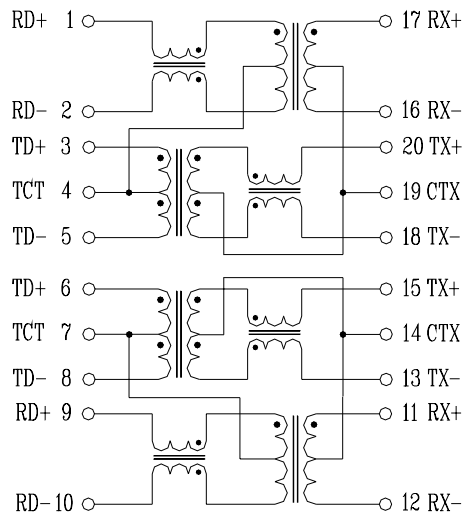
The drawing shows three views of the component:

- Top View:** A rectangular component with a width of 21.00 mm [0.827"] and a height of 9.90 mm [0.390"]. The top surface is labeled with the part number "20PT1024SX" and "DATE CODE". A small circular feature is located near the bottom left corner.
- Side View:** Shows the component's profile with a total height of 3.00 mm [0.118"]. The top surface is 6.40 mm [0.252"] high, and the bottom surface is 0.40 mm [0.016"] high. The component is mounted on a base with a thickness of 2.00 mm [0.079"].
- End View:** Shows the component's width of 7.62 mm [0.300"] and a mounting hole diameter of $\varnothing 0.50$ mm [0.020"]. The mounting holes are spaced 18.00 mm [0.709"] apart.

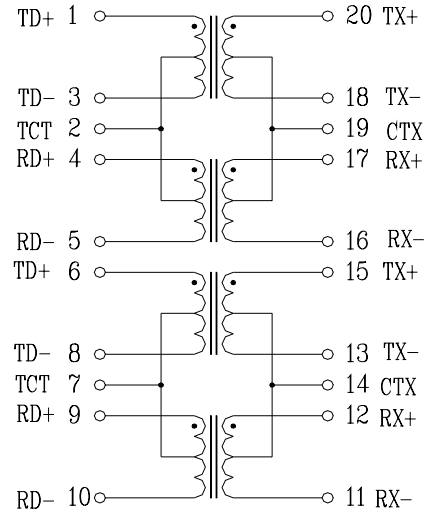
 $0.xx \pm 0.05 [0.002]$

Schematics

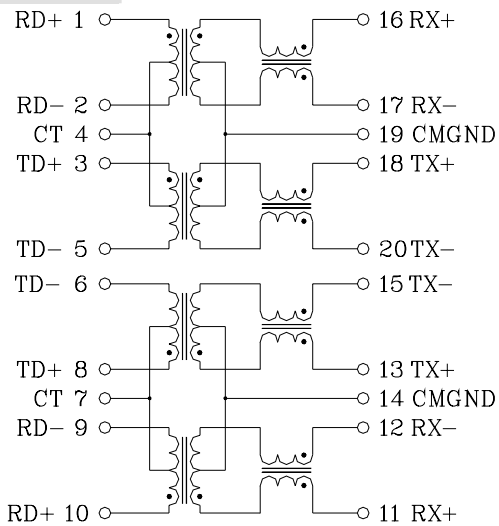
20PT1021AX



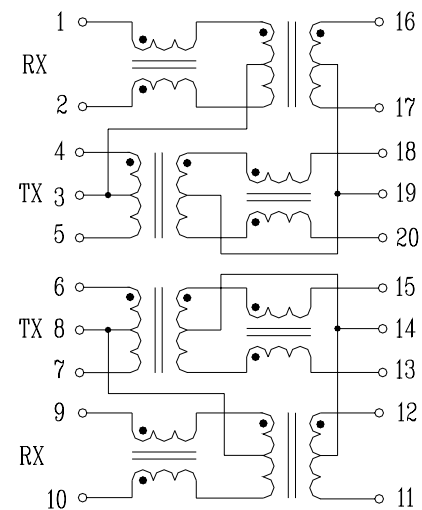
20PT1021CX



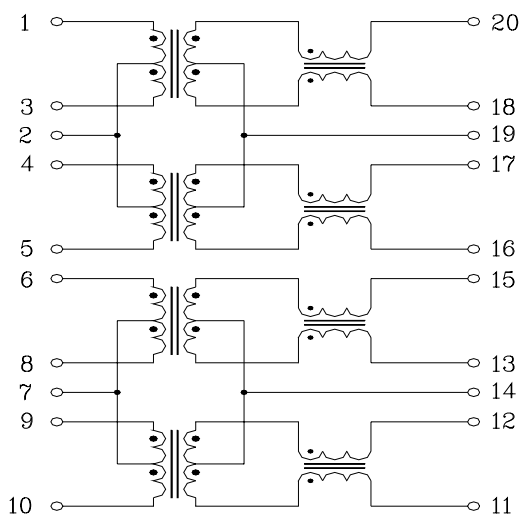
20PT1021FX



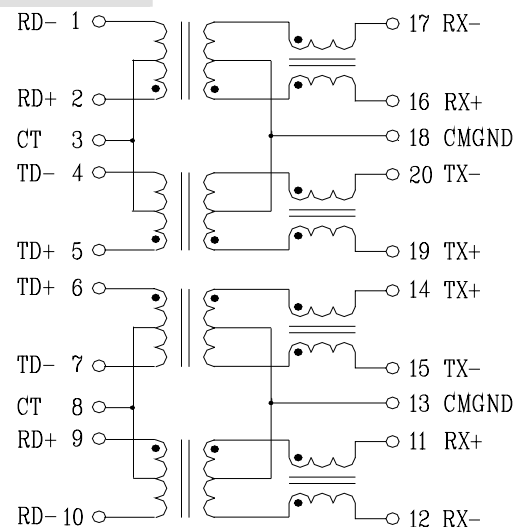
20PT1021GX



20PT1021IX



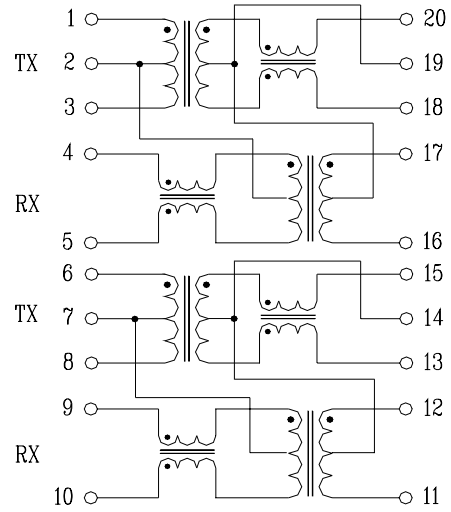
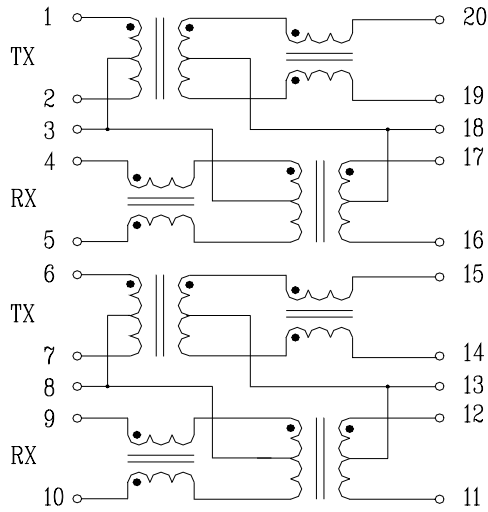
20PT1021SX



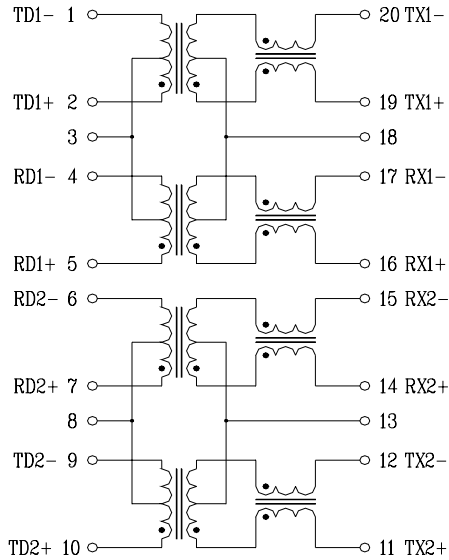
10/00 BASIC DCAL PORT TRANSFORMERS MDIX

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20PT1021X1



20PT1024SX



20PT1024X

