

10BASE-2 TRANSCEIVER MODULES



VAP00100

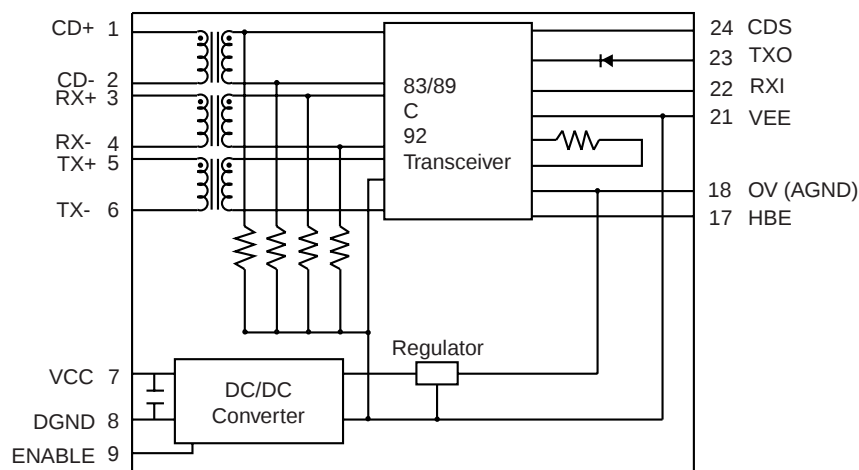
- Complete thin net transceiver contained in a modular surface mount package
- Compliant with ANSI/IEEE 802.3 and ISO-8802-3 standards
- 5.0V and 3.3V input voltages available
- Squelch circuitry on all signal inputs for noise reduction
- Low power transceiver chipset
- Regulated DC/DC converter with high efficiency characteristics
- Enable function for DC/DC converter available
- Self contained loopback test for network cable opens and shorts
- Heart beat enable

ELECTRICAL SPECIFICATIONS at 25°C

Part Number	Input Voltage ±20% Nom	VCC Line Noise	Standby Current	Transmit Current	Enable	Isolation Voltage	
						TX, RX & CD	VCC & GND
0803-5999-02	3.3V ±10%	100mVp-p	200	225	No	2KVDC	500VDC
0803-5999-03	3.3V ±10%	100mVp-p	210	235	Yes	2KVDC	500VDC
0803-5999-04	5.0V ±10%	100mVp-p	305	340	No	2KVDC	500VDC
0803-5999-05	5.0V ±10%	100mVp-p	315	350	Yes	2KVDC	500VDC

Operating temperature -40° to +85° C

Storage temperature -55° to +125° C

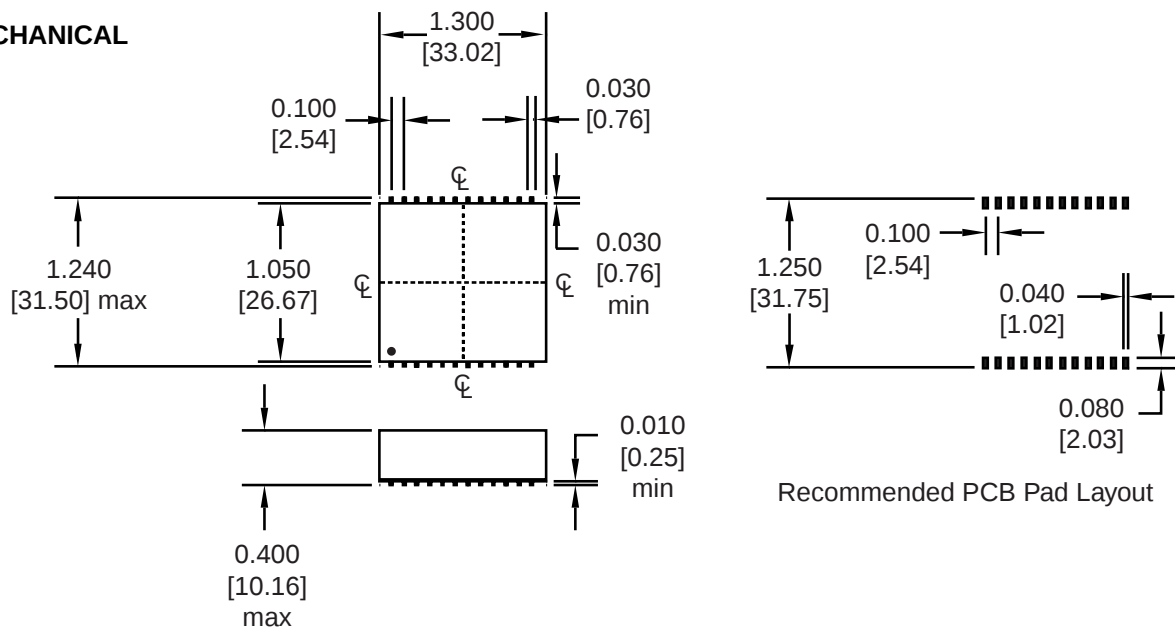


Note: Enable on -03 and -05 units only, otherwise no connection

Typical Applications

- Print servers
- 10Base-2 repeaters
- Cable modem set-top boxes
- Plug and play 10Base-2 ports
- Thin net transceivers
- Network interface cards (NICS)
- 10Base-T hubs with 10Base-2 interface
- PC motherboard designs, network ready
- Adapter board PC designs

MECHANICAL



Pin Number	Function	Pin Number	Function
1	CD+ Collision Detect	9	Enable BAR 0803-5999-03 and 0803-5999-05 only
2	CD- Collision Detect	17	Heart Beat Enable (HBE)
3	RX+ Receive Data In	18	0V (AGND)
4	RX- Receive Data In	21	VEE (reference to AGND)
5	TX+ Transmit Data In	22	RXI Signal Network Receiver
6	TX- Transmit Data In	23	TXO Network Signal Transmitter
7	VCC (regulated to $\pm 5\%$)	24	Collision Detect Sense (CDS)
8	GND (with reference to VCC)	10-16 19 and 20	No Connection

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