

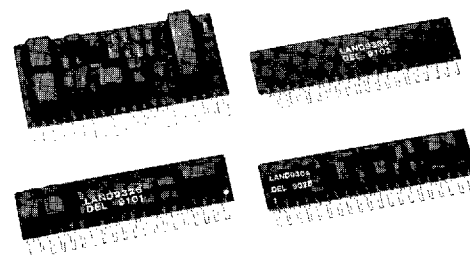
LAN DRIVERS

FOR ARCNET

FEATURES

P/N LAND9325, LAND9326
LAND9336, LAND9304

- The DELTA LAN Drivers series contain all the necessary filtering to guarantee noise-immunity for interference-free data transmission at 2.5Mbps
- The DELTA LAND9325, LAND9326 & LAND9336 LAN drivers are applicable to STAR topology, 2000 ft maximum of RG 62 A/U coaxial cable.
- The DELTA LAND9304 LAN driver is applicable to BUS topology, 1000 ft maximum of RG 62 A/U coaxial cable or 400 ft of unshielded twisted pair wire in connection with eight LAN stations maximum.
- Utilizing surface mounting technology for considerable space savings and reliability enhancement
- Compatible with ARCNET® baseband LAN 20-pin single-in-line package (SIP package)
- Straight or right angle lead frame available



GENERAL SPECIFICATIONS

Operating Temperature Range.....0°C to +70°C
Storage Temperature Range.....-40°C to +125°C
Soldering Temperature.....+325°C 10sec.
Supply Voltage(Vcc).....+5V ±5%
Supply Voltage(Vdd).....-5V ±5%

ELECTRICAL CHARACTERISTICS

PARAMETER	TOPOLOGY	STAR (LAND9325, LAND9326, LAND9336)				BUS (LAND9304)			
		Minimum	Typical	Maximum	Unit	Minimum	Typical	Maximum	Unit
INPUT VOLTAGE LEVELS									
Pulse 1,2 DSBL input				0.8	V			0.8	V
Low-level, VIL		2.0			V	2.0			V
High-level, VIH		6			Vp-p	6			Vp-p
Receive signal amplitude									
OUTPUT VOLTAGE LEVELS									
Rx Data Output				0.4	V			0.4	V
Low-level, VOL		2.4			V	2.4			V
High-level, VOH		16	20		Vp-p	16	20		Vp-p
Transformer Output				4	Vp-p			4	Vp-p
Cable Noise Amplitude									
POWER SUPPLY CURRENT									
Supply current(Icc)				260	mA		190	285	mA
Supply current(Idd)				20	mA		180	270	mA
PULSE WIDTH									
Pulse 1,2 inputs			100		nS		100		nS

NOTE: ARCNET is a registered trademark of Datapoint Corp.

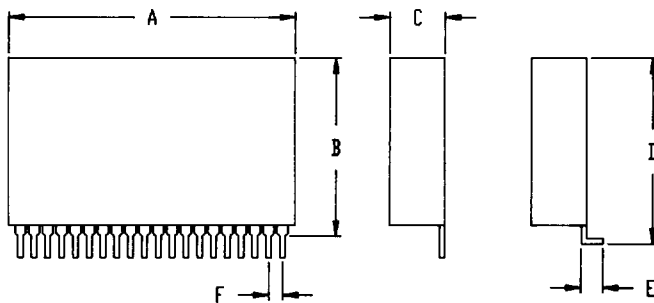
DESCRIPTION OF PIN FUNCTIONS

PIN NO.	LAND9325	LAND9326	LAND9336	LAND9304	FUNCTION
1	-12V RETURN	-12V RETURN	NC	NC	ground for -12V power supply*
2	-12V	-12V	NC	NC	-12V power supply
3	-5V	-5V	NC	-5V	-5V power supply
4, 13, 14, 17	GND	GND	GND	GND	ground
5, 8, 9, 10, 15, 16	NC	NC	NC	NC	no connection
6	+5V	+5V	+5V	+5V	+5V power supply
7	Rx	Rx	Rx	Rx	receive signal, goes to receiver protocol circuitry
11	OUTPUT S	OUTPUT S	OUTPUT S	OUTPUT S	shield/connect to RG62A/U coaxial outer conductor
12	OUTPUT C	OUTPUT C	OUTPUT C	OUTPUT C	shield/connect to RG62A/U coaxial center conductor
18	PULSE 2	PULSE 2	PULSE 2	PULSE 2	TTL level input to the transmitter section
19	DISABLE	DISABLE	DISABLE	DISABLE	transmitter disable function normally connected to ground, a high level signal disables the transmitting
20	PULSE 1	PULSE 1	PULSE 1	PULSE 1	TTL level input to the transmitter section

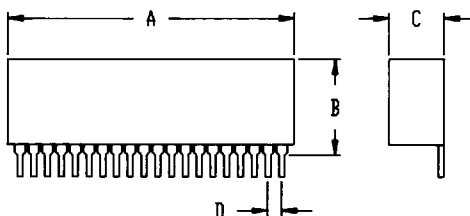
* When -12V supply is used, pin3 must not be connected, pin 1 should be grounded and pin 2 has to be -12V applied. When -12V is not used, pin 1 must be connected.

MECHANICAL CONSTRUCTION

LAND9325



UNIT: mm/inch
 A = 53.34/2.1 Max.
 B = 33.02/1.3 Max.
 C = 10.16/0.4 Max.
 D = 29.21/1.2 Max.
 E = 4.06/0.2 Min.
 F = 2.54/0.1 Typical

 LAND9326
 LAND9336
 LAND9304


UNIT: mm/inch
 A = 53.34/2.1 Max.
 B = 15.51/0.7 Max.
 C = 10.16/0.4 Max.
 D = 2.54/0.1 Typical