100 LAN Interface Module with Enhanced Common Mode Attenuation
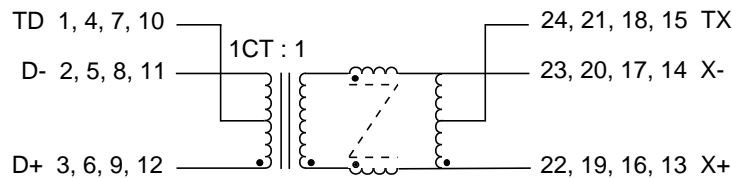
PCA ELECTRONICS INC.

EPF8225S

- Significantly Improved Common Mode Attenuation •
- Guaranteed to operate with 8 mA DC bias at 70°C •
- Complies with or exceeds IEEE 802.3, 10BT/100BX Standards •

Electrical Parameters @ 25° C

OCL (µH Min.)	Insertion Loss (dB Max.)	Return Loss (dB Min.)				Common Mode Rejection (dB Min.)				Crosstalk (dB Min.)
100KHz,0.1Vrms 8mA DC Bias	1-100 MHz	1-30 MHz	30-60 MHz	60-80 MHz	80-100 MHz	1-30 MHz	30-60 MHz	60-80 MHz	80-100 MHz	1-100 MHz
400	1	18	15	12	10	45	40	37	35	35

• **Isolation :** 1500Vrms •

Schematic

TD 1, 4, 7, 10   1CT : 1   24, 21, 18, 15 TX

D- 2, 5, 8, 11   23, 20, 17, 14 X-

D+ 3, 6, 9, 12   22, 19, 16, 13 X+

Package

Marking:
PCA
EPF8225S
Date Code

Pin 1 I.D.

Pad Layout
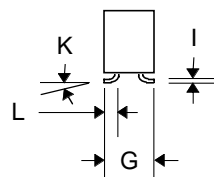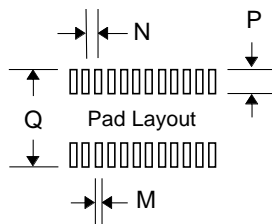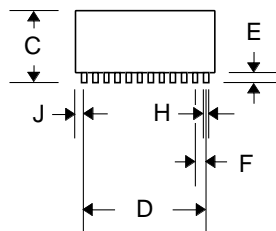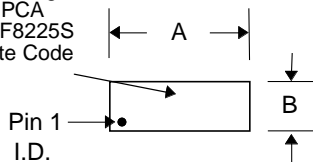
Dimensions

Dim.	(Inches)			(Millimeters)		
	Min.	Max.	Nom.	Min.	Max.	Nom.
A	---	.735	---	---	18.67	---
B	.250	.260	.255	6.35	6.61	6.48
C	---	.380	---	---	9.65	---
D	---	---	.550	---	---	13.97
E	.010	.030	---	.250	.760	---
F	---	---	.050	---	---	1.27
G	---	.260	---	---	6.60	---
H	.016	.020	.018	.406	.508	.457
I	.008	.012	.010	.203	.305	.254
J	---	---	.085	---	---	2.16
K	0°	8°	4°	0°	8°	4°
L	.030	.050	.040	.762	1.27	1.02
M	---	---	.030	---	---	.762
N	---	---	.050	---	---	1.27
P	---	---	.090	---	---	2.29
Q	---	---	.280	---	---	7.11

Product performance is limited to specified parameters. Data is subject to change without prior notice.