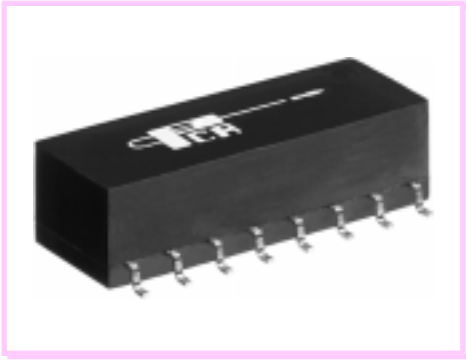# P CA ELECTRONICS INC.

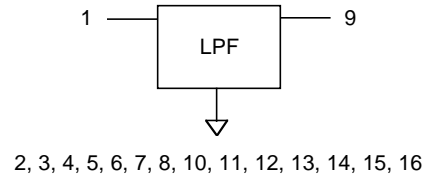# Low Pass Filter for Cable Modem Applications

EPB5059G

- Integrated LPF designed to work with • Broadcom BCM3033, 3137 and 3210

- Robust construction allows for IR/VP processes •

- Available in SMD, DIP and DIL Packages •
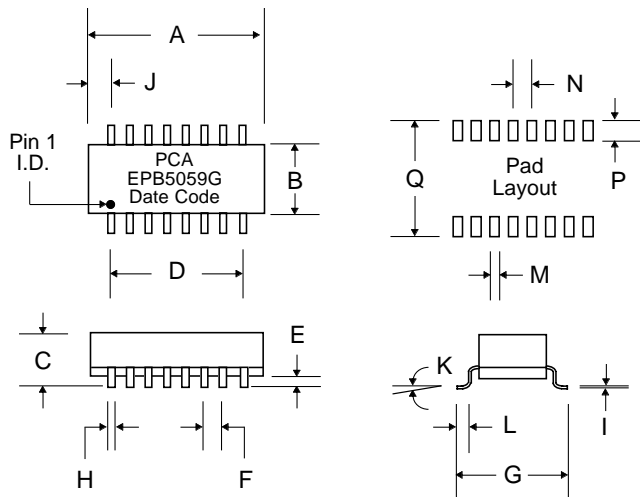
Electrical Parameters @ 25° C

Cut-off Frequency (MHz)	Insertion Loss (dB Max.)	Return Loss (dB Min.)	Attenuation (dB Min.)				Group Delay (nS Max.)
± 3.0 MHz	5-60 MHz	5-60 MHz	@88 MHz	@100 MHz	@200 MHz	@300 MHz	60 MHz
68	-1.5	-15	-20	-40	-45	-45	35

- **Characteristic Filter Impedance** : 75Ω •

Schematic

1 —— [LPF] —— 9

2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16

Package

Pin 1 I.D.

PCA EPB5059G Date Code

Pad Layout

Dimensions

Dim.	(Inches)			(Millimeters)		
	Min.	Max.	Nom.	Min.	Max.	Nom.
A	.840	.860	.850	21.34	21.84	21.59
B	.270	.280	.275	6.86	7.11	6.99
C	.180	.200	.190	4.57	5.08	4.83
D	---	---	.700	---	---	17.78
E	.010	.020	.015	.254	.508	.381
F	---	---	.100	---	---	2.54
G	.380	.400	.390	9.65	10.16	9.91
H	.016	.022	.018	.406	.559	.457
I	.008	.012	.010	.203	.304	.254
J	---	---	.045	---	---	1.14
K	0°	8°	4°	0°	8°	4°
L	.025	.045	.035	.635	1.14	.889
M	---	---	.030	---	---	.762
N	---	---	.100	---	---	2.54
P	---	---	.092	---	---	2.34
Q	---	---	.410	---	---	10.41