PCA ELECTRONICS INC.

Low Pass Filter for Cable Modem Applications
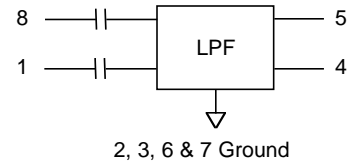
EPB5185G

- Optimized to work with BCM3300 •

- Integrated LPF designed to work with • Broadcom BCM 3033,3137 and 3210

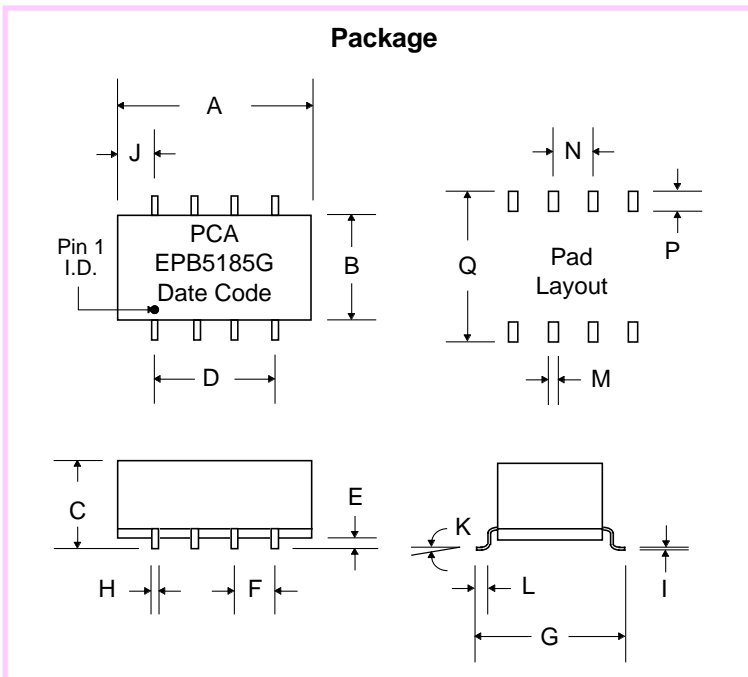- Robust construction allows for IR/VP processes •

Electrical Parameters @ 25° C

Cut-off Frequency (MHz)	Insertion Loss (dB Max.)	Return Loss (dB Min.)	Attenuation (dB Min.)		Group Delay (nS Max.)
			@ 160 MHz	200-300 MHz	@ 60 MHz
±3.0 MHz	1 MHz-60 MHz	1 MHz-60 MHz	@ 160 MHz	200-300 MHz	@ 60 MHz
65	-1.5	-15	-15	-30	30

- **Characteristics Filter Impedance :** 150 Ω •

Schematic

```
8 ──┤├──┐      ┌───── 5
        │ LPF  │
1 ──┤├──┘      └───── 4
         │
         ▽
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2, 3, 6 & 7 Ground

Package

PCA
EPB5185G
Date Code

Pin 1 I.D.

Pad Layout

Dimensions

Dim.	(Inches) Min.	(Inches) Max.	(Inches) Nom.	(Millimeters) Min.	(Millimeters) Max.	(Millimeters) Nom.
A	.490	.510	.500	12.45	12.95	12.70
B	.260	.280	.270	6.60	7.11	6.86
C	.190	.210	.200	4.82	5.33	5.08
D	---	---	.300	---	---	7.62
E	.010	.020	.015	.254	.508	.381
F	---	---	.100	---	---	2.54
G	.365	.385	.375	9.27	9.78	9.53
H	.016	.020	.018	.406	.508	.457
I	.008	.012	.010	.203	.304	.254
J	---	---	.100	---	---	2.54
K	0°	8°	4°	0°	8°	4°
L	.030	.050	.040	.762	1.27	1.02
M	---	---	.030	---	---	.762
N	---	---	.100	---	---	2.54
P	---	---	.085	---	---	2.16
Q	---	---	.440	---	---	11.18

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