

Home Phone Networking Analog Magnetics Module

EPB5147NC

- Designed to work with Broadcom's BCM 4210
 - UL approved file # E210972 •
- Robust construction allows for IR/VP processes •

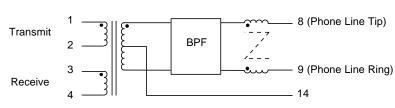
• 1500 Vrms Isolation •

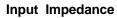
- Enhanced Common Mode Attenuation to pass FCC Class B
 - Temperature Range -40°C to +85°C •

Electrical Parameters @ 25° C

Cut-off Frequency		Insertion Loss (dB Max.)		Return Loss (dB Min.)	Attenuation (dB Min.)		Common to Differential (dB Min.)	Turns Ratio		
Lower Band	Upper Band	4.25 MHz -	9.75 MHz	6 MHz - 9MHz	@ 1.1 MHz	@ 22 MHz	@ 54 MHz	200 KHz - 22 MHz	Pins 20-18:1-3	Pins 20-18:5-7
3.5	11.5	-1.0 Min.	-2.2 Max.	-12	-60	-35	-50	-40	1:.667	1:2

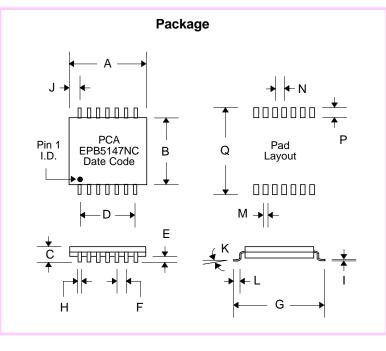
• Filter Characteristic Impedance : 100 $\,\Omega\,$ •





With 44.2 Ω load across pins 1 and 2, please refer to the table below. The magnitude of the input impedance shall be > 10 Ω from 0-30 MHz and shall conform to the following lower-bound mask:

Frequency Range (KHz)	$\begin{array}{c} \text{Minimum} \\ \text{Impedance} \\ \Omega \end{array}$	Frequency Range (KHz)	Minimum Impedance Ω
0 < f < = 0.28	51M	1000 < f < = 1400	175
0.285 < f < = 2.85	100 K	1400 < f < = 2300	100
2.85 < f < = 28.5	10 K	2300 < f < = 2850	50
28.5 < f < = 95	4.0 K	2850 < f < = 3085	25
95 < f < = 190	2.0 K	3085 < f < = 3725	10
190 < f < = 285	1.4 K	3725 < f < = 3935	25
285 < f < = 380	1.0 K	3935 < f < = 4000	50
380 < f < = 475	850	10000 < f < = 10450	
475 < f < = 570	700	10450 < f < = 10925	
570 < f < = 665	600	10925 < f < = 13125	
665 < f < = 760	525	13125 < f < = 14175	
760 < f < = 855	450	14175 < f < = 16800	
855 < f < = 950	400	16800 < f < = 21000	
950 < f < = 1000) 350	21000 < f < = 30000	50



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		(Inches))	(Millimeters)			
Dim.	Min.	Max.	Nom.	Min.	Max.	Nom.	
А	.830	.850	.840	21.08	21.59	21.33	
В	.740	.760	.750	18.79	19.30	19.05	
С	.084	.092	.088	2.13	2.34	2.24	
D			.600			15.24	
E	.003	.010	.005	.076	.254	.127	
F			.100			2.54	
G	.870	.890	.880	22.10	22.61	22.35	
Н	.017	.022	.020	.432	.559	.508	
	.008	.013	.011	.203	.330	.279	
J			.120			3.05	
K	0°	8°		0°	8°		
L	.025	.045	.035	.635	1.14	.889	
М			.030			.762	
N			.100			2.54	
Р			.085			2.16	
Q			.910			23.11	

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CSB5147NC Rev. - 9/27/00 Product performance is limited to specified parameters. Data is subject to change without prior notice.

Schematic