

Diplexer

Plug-In

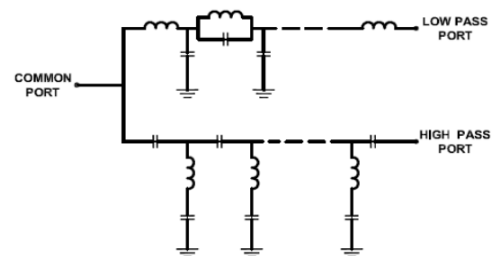
DPLC-EDU2347_1**Important Note**

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.

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**CASE STYLE : QB2223**

ELECTRICAL SPECIFICATIONS 75Ω @ +25°C							
Parameter		Port	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	Lowpass	DC-65	-	1	1.6	dB
		Highpass	85-1220	-	1	1.6	dB
	Return Loss	Lowpass	DC-65	20	24	-	dB
		Highpass	85-1220	18	24	-	dB
		Common	DC-65	20	24	-	dB
			85-1220	18	24	-	dB
Stop band isolation		Lowpass	85-1220	40	50	-	dB
		Highpass	DC-65	43	50	-	dB
		Cross over	65-85	35	40	-	dB

Functional Schematic

MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1 W

PIN CONNECTIONS	
Highpass port	7
Lowpass port	1
Common port	4
Ground	2,3,5,6,8,9

Case style size	1.243"X1.117"X0.630"
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Typical Performance Data

FREQUENCY	INSERTION LOSS		Cross over isolation	RETURN LOSS		
(MHz)	(dB)		(dB)	(dB)		
	Lowpass port	Highpass port	(between LPF and HPF)	Common port	Lowpass port	Highpass port
1.0	0.01	88.53	93.67	51.69	52.76	0.00
10.0	0.06	74.57	73.35	45.27	47.79	0.01
30.0	0.14	64.78	64.39	35.33	35.64	0.06
65.0	1.29	59.59	58.14	30.96	29.11	0.55
67.0	2.17	57.49	56.22	13.39	12.95	0.62
68.0	3.32	47.45	49.36	8.74	8.28	0.66
70.0	8.37	32.04	42.96	3.66	3.15	0.77
70.5	10.20	28.93	42.48	3.07	2.54	0.81
72.0	16.60	21.03	42.25	2.18	1.55	1.00
72.5	19.00	18.77	42.49	2.07	1.38	1.10
73.0	21.53	16.64	43.01	2.02	1.24	1.23
74.0	27.08	12.75	44.55	2.14	1.06	1.63
74.5	30.18	11.00	45.51	2.32	0.99	1.94
75.0	33.60	9.37	46.91	2.60	0.94	2.34
78.0	58.29	3.15	67.82	7.36	0.72	7.98
85.0	62.23	0.99	65.48	22.77	0.53	37.94
100.0	58.96	0.55	57.32	25.71	0.44	28.09
500.0	53.24	0.36	52.24	28.71	0.36	28.70
950.0	53.62	0.56	52.29	26.04	0.50	24.10
1220.0	55.90	0.72	56.61	1.243"X1.117"X0.6	0.72	27.56

Typical Performance Curves

