

Diplexer

Plug-In

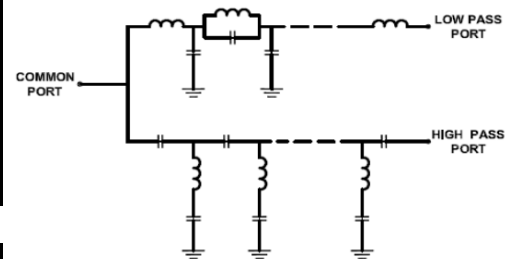
DPLC-EDU2532**Important Note**

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 : QC2228****ELECTRICAL SPECIFICATIONS 75Ω @ +25°C**

Parameter		Port	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	Lowpass	DC-42	-	1	1.4	dB
		Highpass	54-1220	-	1	1.5	dB
	Return Loss	Lowpass	DC-42	20	24	-	dB
		Highpass	54-1220	20	24	-	dB
		Common	DC-42	20	24	-	dB
			54-1220	20	24	-	
Stop Band Isolation		Lowpass	54-1220	45	50	-	dB
		Highpass	DC-42	45	50	-	dB
Cross Over Isolation		LP-HP	42-54	37	40	-	dB

Functional Schematic**MAXIMUM RATINGS**

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

PIN CONNECTIONS

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

Case style size

1.243"X1.117"X0.630"



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant
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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
1.00	0.01	77.06	75.43	50.38	49.63	0.00
25.00	0.19	63.95	63.11	27.17	27.80	0.09
42.00	1.03	58.72	57.47	28.65	30.14	0.65
44.00	2.52	57.75	55.96	9.84	10.45	0.84
45.00	5.72	55.24	59.52	4.48	4.61	0.95
46.00	11.59	35.48	50.96	2.31	2.11	1.10
47.00	19.15	23.70	48.01	1.78	1.25	1.34
48.00	28.23	14.79	47.72	2.04	0.89	1.87
49.00	40.58	7.97	50.46	3.49	0.71	3.39
50.00	52.65	3.81	56.64	7.36	0.59	7.10
51.00	54.98	2.07	60.77	14.04	0.52	13.14
52.00	59.12	1.44	61.72	22.97	0.46	20.07
54.00	66.91	1.01	65.59	27.23	0.39	26.69
55.00	73.83	0.90	68.63	26.72	0.37	27.76
75.00	56.61	0.41	56.54	27.26	0.33	27.60
100.00	60.24	0.34	59.20	28.71	0.36	37.60
250.00	59.21	0.33	58.60	27.77	0.34	30.78
500.00	52.61	0.43	51.78	27.09	0.27	27.44
1000.00	51.52	0.68	51.32	26.07	0.55	27.95
1220.00	52.83	1.04	53.40	28.54	0.84	39.19

Typical Performance Curves

