

Diplexer

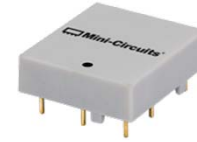
Plug-In

DPLC-EDU2765+

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.

Please click "Back", and then click "Contact Us" for Applications support.



CASE STYLE : QC2228

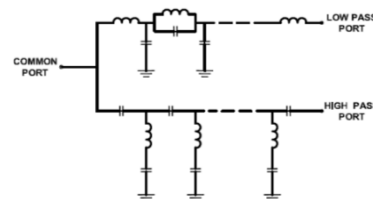
ELECTRICAL SPECIFICATIONS 75Ω @ +25°C							
Parameter		Port	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	Lowpass	5	-	-	0.20	dB
			85	-	-	1.3	dB
		Highpass	102	-	-	1.75	dB
			105	-	-	1.3	dB
			130	-	-	0.6	dB
			870	-	-	0.50	dB
			1000	-	-	0.55	dB
			1218	-	-	0.60	dB
			1225	-	-	0.65	dB
	Flatness (Deviation from best fit line)	Lowpass	5-85	-	-	0.65	dB
		Highpass	120-1225	-	-	0.40	dB
	Return Loss	Lowpass	5-85	22.00	24.00	-	dB
		Highpass	102-104.9	22.00	24.00	-	dB
			105-1225	22.00	24.00	-	dB
		Common	5-85	22.00	24.00	-	dB
102-104.9			22.00	24.00	-	dB	
105-1225			22.00	24.00	-	dB	
Stop Band Isolation		Highpass	5-84.9	50.00	-	-	dB
			85-104.9	40.00	-	-	dB
		Lowpass	105-1225	43.00	50.00	-	dB
Group Delay		Highpass	109.275-112.855	-	-	10.00	ns
			115.275-118.855	-	-	8.00	ns
			121.2625-124.843	-	-	6.00	ns
		Lowpass	82-83.5	-	-	6.00	ns
			83.5-85	-	-	8.00	ns

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" X 1.117" X 0.630"
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Functional Schematic

**+RoHS Compliant**

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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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
1.000	0.08	77.26	83.78	50.57	51.52	0.05
5.000	0.09	68.23	67.73	45.65	45.28	0.03
50.000	0.24	64.35	65.40	28.25	28.94	0.05
82.000	0.83	60.47	58.37	25.99	27.64	0.31
83.500	0.94	59.68	57.76	26.44	29.73	0.34
84.900	1.07	56.95	55.77	27.01	29.77	0.38
85.000	1.08	56.75	55.50	27.05	29.68	0.38
90.000	3.07	63.14	53.66	12.57	12.52	0.58
92.000	10.28	38.35	51.19	4.22	3.51	0.72
93.500	20.99	26.56	51.43	2.88	1.82	0.92
94.000	25.51	23.34	52.60	2.78	1.57	1.01
94.500	30.80	20.35	54.50	2.78	1.40	1.15
95.000	37.25	17.53	55.93	2.88	1.26	1.33
96.000	49.74	12.43	53.73	3.43	1.07	1.96
97.000	47.55	8.16	48.33	4.77	0.94	3.26
98.000	46.68	5.06	45.43	7.43	0.84	5.73
99.000	44.65	3.20	44.73	11.80	0.76	9.68
100.000	44.69	2.25	45.68	18.03	0.71	15.09
102.000	49.01	1.50	50.15	30.96	0.63	33.40
103.000	52.53	1.32	53.83	27.74	0.60	32.71
104.000	56.98	1.19	57.95	26.27	0.58	28.17
104.900	62.12	1.10	63.08	25.89	0.56	26.49
105.000	62.81	1.09	63.47	25.87	0.56	26.35
109.000	61.73	0.83	63.06	25.64	0.52	24.69
109.275	61.66	0.81	61.85	25.55	0.51	24.67
112.855	60.95	0.68	62.61	24.94	0.50	24.90
115.275	63.32	0.61	67.52	24.84	0.49	25.20
118.855	65.81	0.54	72.21	24.90	0.48	25.48
120.000	64.54	0.52	67.72	24.92	0.48	25.45
121.263	62.50	0.50	65.22	24.93	0.48	25.42
124.843	58.92	0.45	59.01	24.80	0.48	24.99
130.000	55.09	0.40	55.72	24.33	0.48	24.28
250.000	63.85	0.19	65.60	30.89	0.41	31.31
500.000	54.80	0.22	53.47	24.28	0.32	23.30
870.000	51.42	0.29	48.87	25.99	0.38	24.93
1000.000	51.68	0.32	50.62	29.79	0.47	25.01
1150.000	47.24	0.36	47.59	26.93	0.61	28.69
1200.000	45.83	0.38	46.51	25.04	0.66	32.58
1218.000	45.30	0.39	45.99	24.29	0.68	34.06
1225.000	45.25	0.39	45.81	24.04	0.69	34.42



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED • RoHS compliant
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Typical Performance Curves

