

Diplexer

Plug-In

DPLC-EDU2534+

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

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Parameter		Port	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	Lowpass	5-204	-	1.0	1.5	dB
		Highpass	258-1220	-	1.0	1.5	dB
	Return Loss	Lowpass	5-204	20	24	-	dB
		Highpass	258-1000	20	24	-	dB
			1000-1220	20	24	-	dB
		Common	5-204	20	24	-	dB
			258-1000	20	24	-	dB
			1000-1220	20	24	-	dB
Stop Band Isolation		Lowpass	258-1220	40	45	-	dB
		Highpass	5-204	45	50	-	dB
		Cross over	204-258	35	40	-	dB

MAXIMUM RATINGS

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

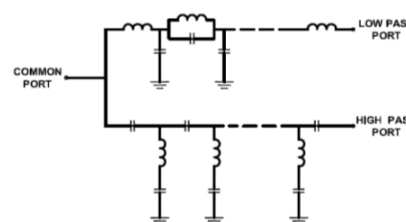
PIN CONNECTIONS

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"

Functional Schematic



+RoHS Compliant

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

Plug-In Diplexer

DPLC-EDU2534+

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	0.02	76.82	79.02	52.45	54.07	0.03
5.0	0.02	82.35	78.66	45.66	45.56	0.02
50.0	0.10	73.88	74.10	30.89	32.71	0.00
100.0	0.18	57.73	58.74	30.82	29.02	0.06
201.0	0.77	53.15	52.25	28.30	27.31	0.55
202.5	0.81	52.89	51.60	30.90	29.69	0.56
204.0	0.86	53.15	51.45	36.56	34.86	0.58
216.0	3.39	39.40	42.48	6.60	6.22	0.71
220.0	7.27	30.38	39.86	3.14	2.73	0.77
225.0	14.74	20.90	39.98	1.71	1.20	0.91
228.0	20.11	16.15	41.23	1.58	0.90	1.09
233.0	30.84	9.43	45.32	2.17	0.69	1.87
235.0	36.15	7.21	47.88	2.81	0.65	2.53
240.0	53.00	3.30	58.78	6.05	0.58	5.73
245.0	59.79	1.61	62.05	11.78	0.54	11.36
250.0	69.42	1.03	63.39	19.39	0.50	18.96
258.0	58.60	0.76	59.20	32.21	0.46	36.07
259.0	58.91	0.74	57.89	32.54	0.46	36.41
263.0	56.12	0.68	56.60	31.55	0.44	32.16
265.0	55.41	0.65	55.76	30.98	0.44	30.68
269.0	54.93	0.61	54.87	30.21	0.42	29.04
271.0	54.51	0.59	54.91	29.95	0.42	28.58
275.0	54.79	0.56	54.10	29.69	0.41	27.95
300.0	53.45	0.44	52.26	29.28	0.36	27.22
326.0	48.46	0.38	48.26	30.91	0.34	29.31
350.0	46.39	0.35	46.50	30.24	0.33	31.55
375.0	45.73	0.33	45.55	28.32	0.30	32.02
400.0	45.56	0.31	45.41	27.25	0.28	30.98
425.0	45.87	0.31	45.73	26.79	0.26	30.39
450.0	46.43	0.30	46.11	27.12	0.24	30.60
475.0	47.27	0.30	46.83	27.99	0.22	31.42
500.0	47.64	0.30	47.40	29.24	0.20	32.53
600.0	50.04	0.32	50.06	34.11	0.11	32.77
700.0	50.24	0.35	51.11	27.32	0.07	26.27
800.0	49.51	0.39	49.25	23.75	0.08	23.42
900.0	48.22	0.42	48.23	22.67	0.08	22.55
1000.0	47.62	0.46	47.59	23.46	0.15	22.68
1100.0	47.54	0.49	47.09	24.20	0.22	23.81
1200.0	47.45	0.51	47.95	22.87	0.31	25.91
1220.0	47.30	0.51	48.12	22.12	0.35	26.56



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

