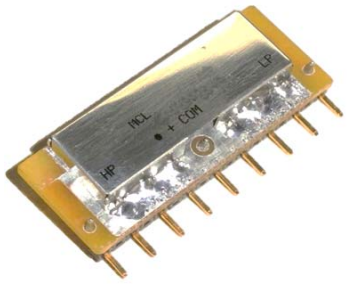
Engineering Development Model

Diplexer

PLUG-IN

DPLE-EDU2611



CASE STYLE : 99-01-2411

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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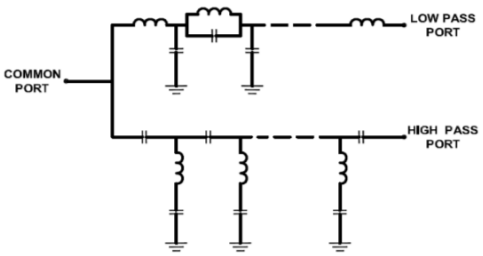
ELECTRICAL SPECIFICATIONS 75Ω @ +25°C							
Parameter		**Port**	**Frequency (MHz)**	**Min.**	**Typ.**	**Max.**	**Units**
Passband	**Insertion Loss**	**Lowpass**	**5-42**	-	0.7	1.3	dB
		Highpass	**54-1220**	-	1	1.5	dB
	Return Loss	**Lowpass**	**5-42**	20	24	-	dB
		Highpass	**54-1220**	17	20	-	dB
		Common	**5-42**	20	24	-	dB
			54-1220	17	20	-	dB
Cross over isolation			**5-42**	42	46	-	dB
			42-54	-	10	-	dB
			54-1000	43	50	-	dB
			1000-1220	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	9
Lowpass port	1
Common port	5
Ground	2,3,4,6,7,8

Case style size	1.730"X0.545"X0.840

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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	0.07	74.07	73.75	53.05	48.24	0.05
5.0	0.10	63.87	64.46	37.52	38.79	0.04
40.0	0.57	50.19	50.98	39.99	41.53	0.62
42.0	0.73	48.29	48.92	27.05	29.80	0.77
45.4	1.54	29.96	30.58	14.53	14.52	1.23
46.8	2.72	19.77	20.07	12.17	10.07	2.00
47.0	3.04	17.59	18.65	12.29	9.51	2.27
48.6	13.97	3.25	16.43	19.97	2.49	13.32
49.4	20.41	2.18	21.48	16.50	1.53	14.42
51.0	30.54	1.41	32.49	18.67	0.96	17.21
54.0	57.66	0.89	73.34	24.69	0.62	24.81
100.0	55.92	0.32	56.01	41.05	0.33	29.73
150.0	60.24	0.29	60.66	31.99	0.28	32.78
300.0	63.99	0.29	64.89	26.79	0.20	29.30
500.0	62.43	0.34	63.83	25.22	0.16	26.65
750.0	68.86	0.39	63.80	28.07	0.22	27.24
1000.0	50.12	0.53	49.71	29.10	0.44	30.47
1100.0	46.44	0.62	45.18	26.51	0.56	32.64
1200.0	42.91	0.72	41.88	22.87	0.65	23.10
1220.0	42.34	0.76	41.38	21.58	0.68	21.41

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Typical Performance Curves