

Engineering Development Model

Diplexer Surface Mount

DPLX-EDU1044+

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.

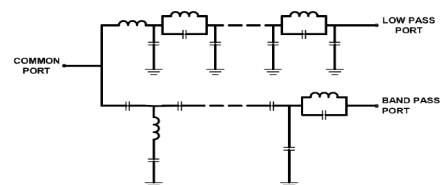


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CASE STYLE : 99-01-1348

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C							
Parameter		Port	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	Lowpass	50-870	-	0.6	2.5	dB
		Bandpass	950-1125	-	1	2.5	dB
			1125-1550	-	0.8	2	dB
	Return Loss	Lowpass	50-300	16	20	-	dB
			301-600	14	18	-	dB
			601-870	12	16	-	dB
		Bandpass	950-1400	14	20	-	dB
			1400-1550	14	20	-	dB
		Common	50-300	16	20	-	dB
			301-600	14	18	-	dB
			601-870	12	16	-	dB
			950-1400	14	20	-	dB
			1400-1550	14	20	-	dB
Stop band isolation		Lowpass	950-975	30	35	-	dB
			975-1055	35	45	-	dB
			1055-1550	40	50	-	dB
			1790-2100	20	35	-	dB
		Bandpass	50-870	35	45	-	dB
2000-3000	20		35	-	dB		
Crossover isolation		Lowpass to Bandpass	50-870	35	45	-	dB
			950-975	30	35	-	dB
			975-1055	35	45	-	dB
			1055-1550	40	50	-	dB

Functional Schematic



MAXIMUM RATINGS	
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +100°C
RF Power Input	250mW

PIN CONNECTIONS	
Highpass port	10
Lowpass port	4
Common port	2
Ground	1,3,5,6,7,8,9



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Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)		CROSS OVER ISOLATION (dB) Between LPF and HPF	RETURN LOSS (dB)		
	Low Pass Port	High Pass Port		Common Port	Low Pass Port	High Pass Port
50	0.08	60.22	59.90	27.17	27.10	0.00
100	0.13	54.93	53.87	21.81	21.97	0.03
300	0.23	48.73	49.05	23.06	24.44	0.27
301	0.23	48.77	49.00	23.13	24.52	0.27
600	0.43	62.15	59.90	22.16	23.35	0.50
601	0.43	61.43	59.55	22.26	23.45	0.49
840	1.14	47.20	47.94	13.97	13.43	0.67
870	1.43	45.47	51.38	18.50	21.02	0.92
950	43.04	1.74	45.47	15.34	0.38	17.37
975	40.73	1.27	42.15	24.10	0.28	28.31
1055	53.49	1.00	54.05	16.23	0.31	16.89
1125	57.36	0.77	62.89	19.27	0.38	21.16
1400	54.15	0.78	54.55	28.61	0.54	32.22
1500	50.29	0.98	51.67	25.30	0.52	24.31
1550	48.61	0.99	50.57	29.04	0.54	33.34
1700	55.69	5.46	50.97	4.81	0.42	4.19
1790	49.97	11.17	55.17	1.74	0.36	1.36
2000	41.05	25.27	62.35	0.43	0.03	1.00
2100	38.72	36.91	55.95	1.02	0.16	0.96
3000	32.89	33.46	34.05	1.48	1.03	0.14

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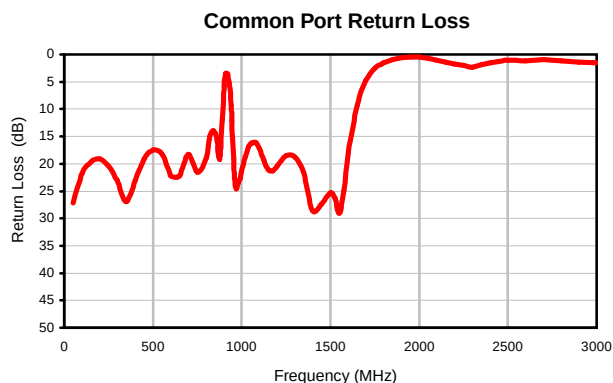
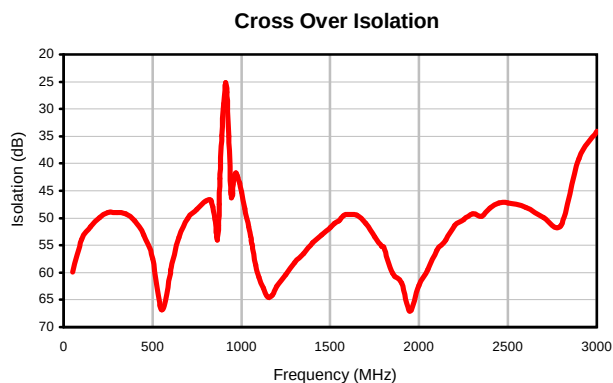
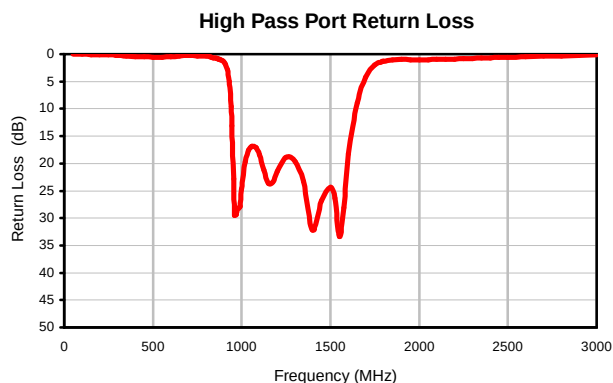
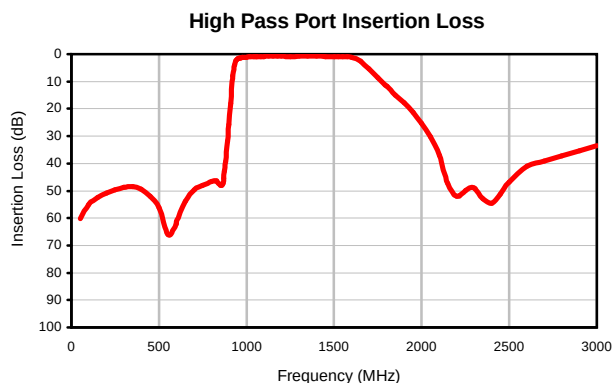
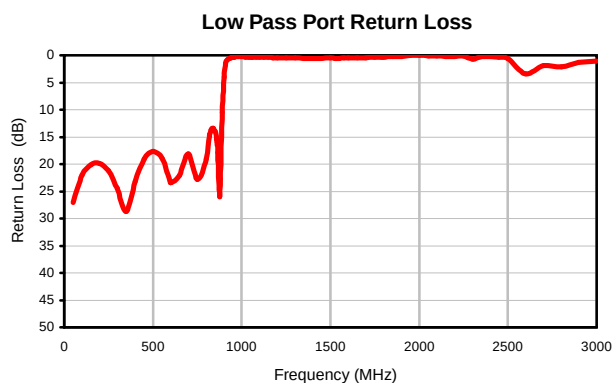
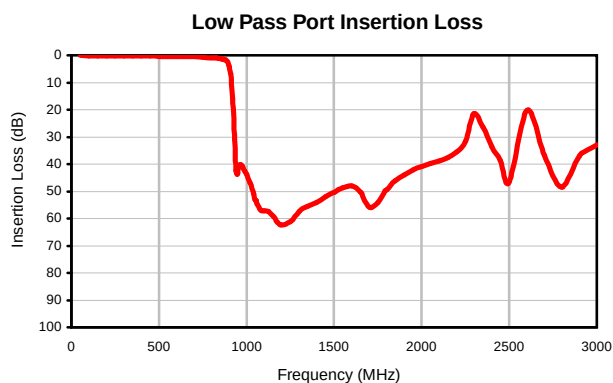
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Typical Performance Curves

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Patent Pending

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