

Diplexer

Surface Mount

DPLX-EDU1116+

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 : 99-01-1425

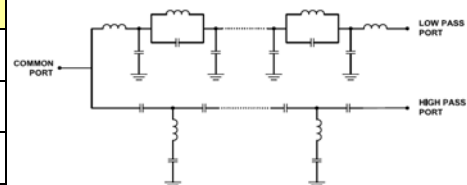
ELECTRICAL SPECIFICATIONS 75Ω @ +25°C

Parameter	Port	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	Lowpass	50-800	0.5	1	dB
			800-1000	1	2.5	dB
		Highpass	1200-1300	1	2	dB
	Return Loss	Lowpass	50-1000	14	22	dB
		Highpass	1200-1300	14	22	dB
		Common	50-1000	15	22	dB
			1200-1300	15	22	dB
		Lowpass	1200-1300	60	75	dB
Stop band isolation	Highpass	50-800	60	80		dB
		800-1000	60	80		dB
Crossover isolation	Lowpass to Highpass	1000-1200	24	40		dB

MAXIMUM RATINGS

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

Functional Schematic



PIN CONNECTIONS

Highpass port	SMB-F
Lowpass port	SMB-F
Common port	SMB-F

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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	0.06	85.55	91.90	30.34	30.90	0.02
75	0.08	88.74	91.87	26.88	27.51	0.05
100	0.11	88.45	91.45	24.68	25.30	0.07
200	0.18	87.04	84.83	21.02	21.46	0.22
300	0.22	82.19	84.28	22.11	21.96	0.39
400	0.26	85.76	82.32	28.65	27.94	0.51
500	0.35	86.49	86.13	26.87	27.59	0.50
600	0.42	88.95	91.44	21.03	20.08	0.36
700	0.52	85.85	90.32	20.17	19.67	0.05
800	0.56	87.26	86.33	27.62	28.46	0.36
900	0.83	84.94	81.92	25.24	25.02	0.31
1000	1.63	73.09	70.51	27.03	22.09	1.07
1030	3.88	48.89	49.80	10.78	9.83	1.58
1040	6.64	40.97	45.65	6.31	6.04	1.76
1050	10.45	31.39	42.27	3.86	3.56	2.01
1100	30.26	11.15	43.88	2.46	0.07	2.55
1150	50.55	3.77	57.24	4.31	0.31	4.12
1200	70.31	1.11	72.68	26.31	0.00	21.17
1250	83.12	0.94	82.56	20.19	0.40	20.54
1300	86.10	0.98	84.52	20.25	0.75	21.68

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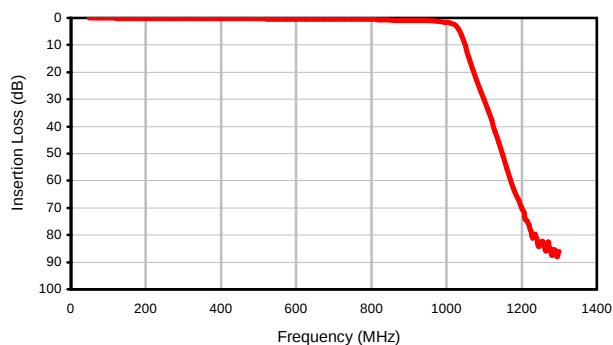


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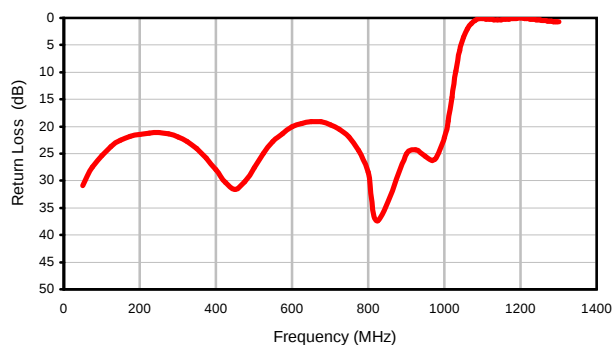
Typical Performance Curves

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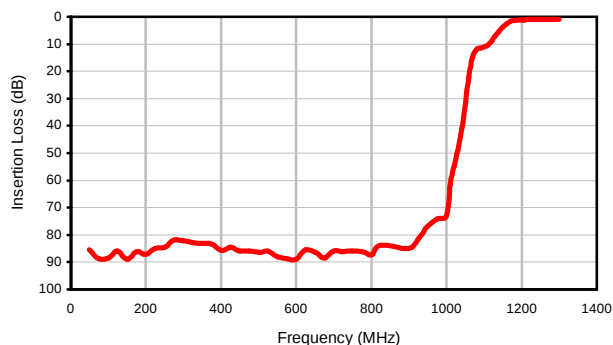
Low Pass Port Insertion Loss



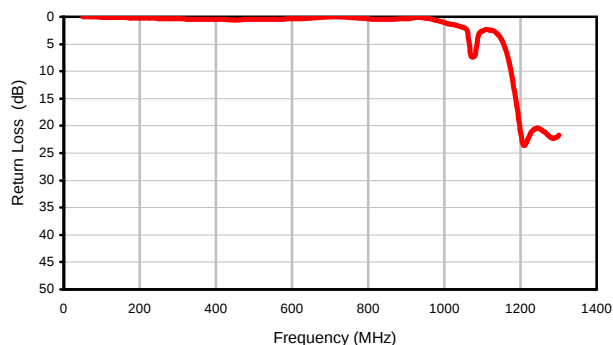
Low Pass Port Return Loss



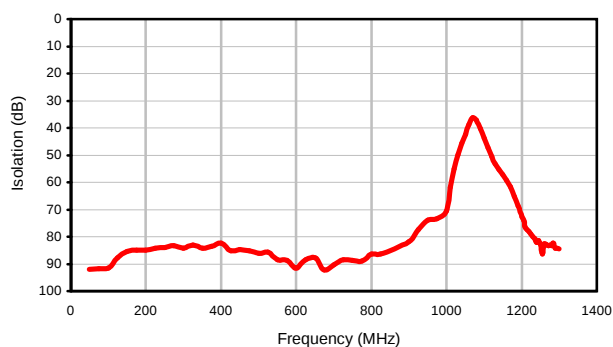
High Pass Port Insertion Loss



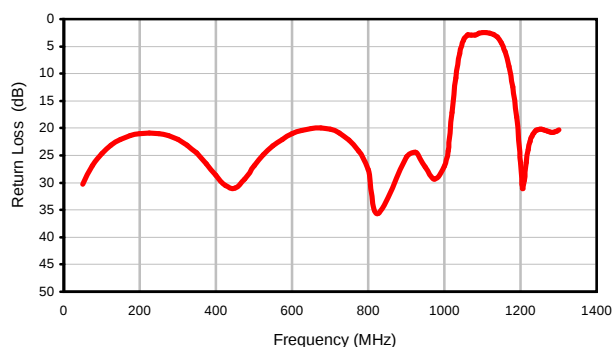
High Pass Port Return Loss



Cross Over Isolation



Common Port Return Loss



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