

Diplexer

Coaxial

ZDPLX-6GEDU+

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 : FL905

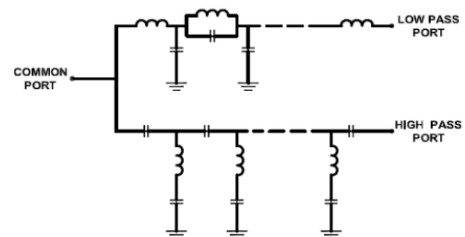
ELECTRICAL SPECIFICATIONS 50Ω @ +25°C							
Parameter		Port	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	Lowpass	10-2600	-	0.7	-	dB
		Highpass	4900-6000	-	1.2	-	dB
	Return Loss	Lowpass	10-2600	-	11	-	dB
		Highpass	4900-6000	-	11	-	dB
		Common	10-2600	-	11	-	dB
			4900-6000	-	11	-	dB
Stop Band Isolation		Lowpass	4900-6000	20	25	-	dB
			6000-7500	15	20	-	dB
		Highpass	10-2500	18	22	-	dB

MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	2W

PIN CONNECTIONS	
Lowpass port	1
Common port	2
Highpass port	3

Case style size	0.74 x 0.90 x 0.54"
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Functional Schematic



+RoHS Compliant

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



Coaxial Diplexer

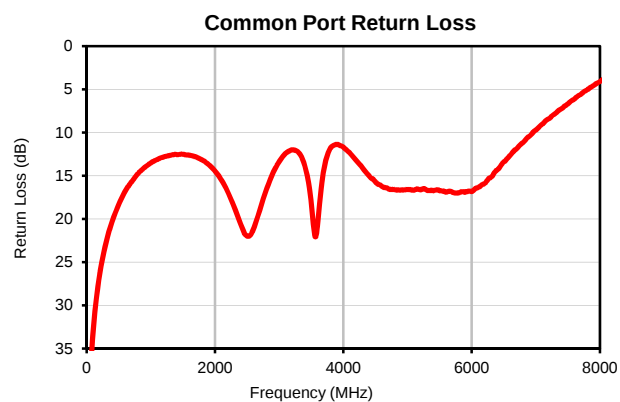
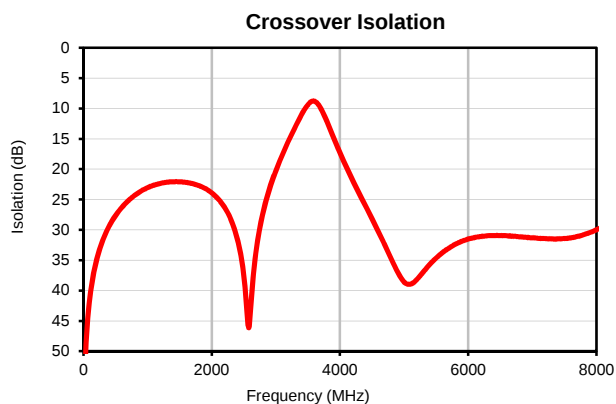
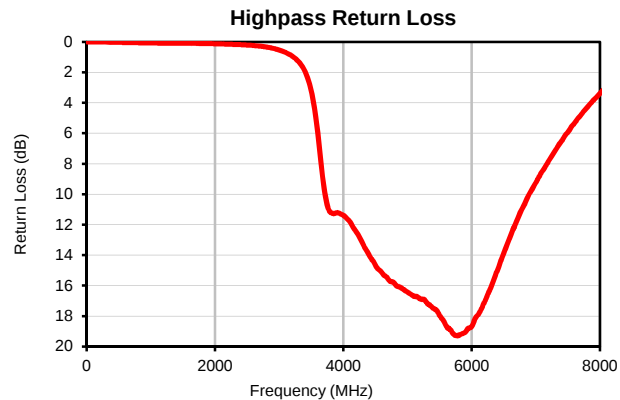
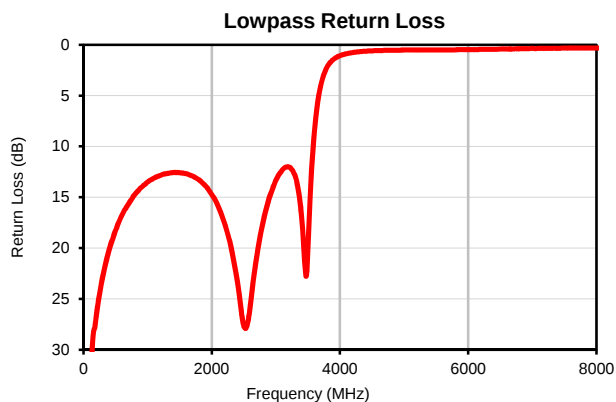
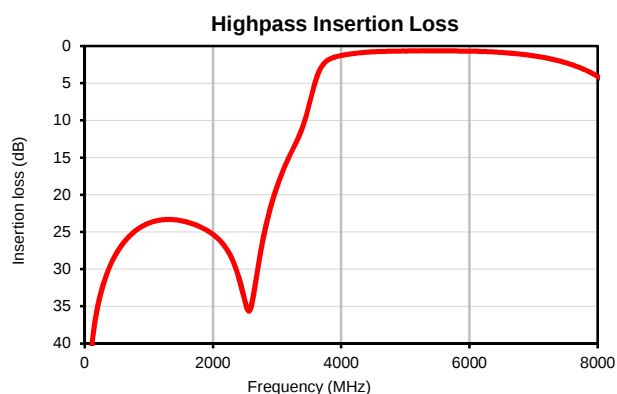
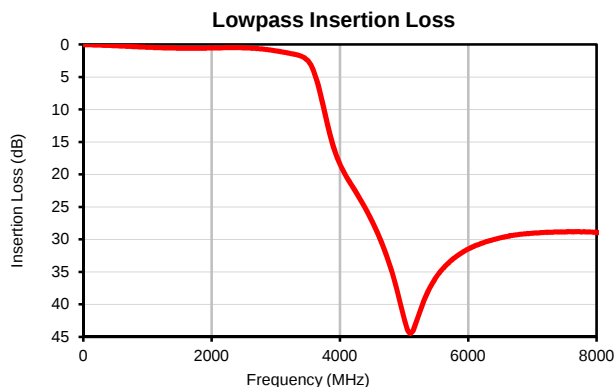
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Typical Performance Data

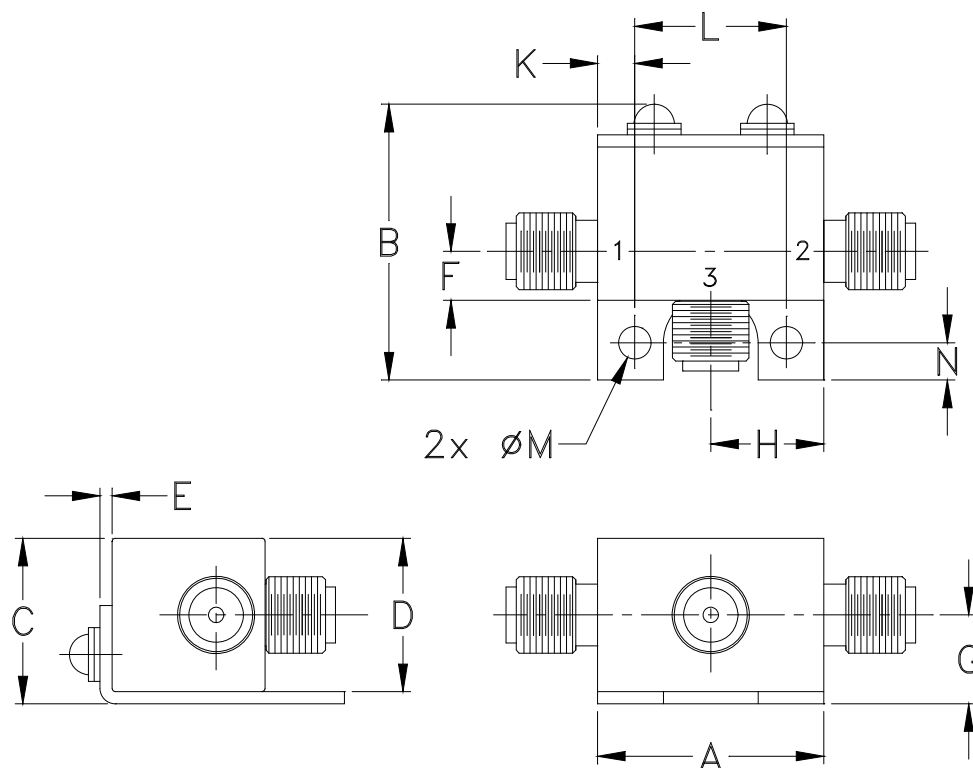
FREQUENCY	INSERTION LOSS		Cross over isolation	RETURN LOSS		
(MHz)	(dB)		(dB)	(dB)		
	Lowpass port	Highpass port	(between LPF and HPF)	Common port	Lowpass port	Highpass port
10	0.02	60.92	61.07	55.79	54.45	0.00
30	0.03	51.45	51.53	44.85	44.71	0.00
50	0.04	47.03	47.09	39.91	40.08	0.00
100	0.05	41.07	41.09	32.98	33.08	0.00
200	0.08	35.13	35.16	26.48	26.65	0.01
250	0.09	33.25	33.27	24.55	24.57	0.01
500	0.19	27.79	27.65	18.31	18.29	0.03
750	0.31	25.13	24.72	15.20	15.19	0.06
1000	0.42	23.81	23.05	13.50	13.51	0.08
1500	0.56	23.49	22.09	12.50	12.59	0.09
2000	0.54	25.32	23.91	14.45	14.72	0.13
2300	0.49	28.67	28.31	18.62	19.88	0.17
2600	0.55	34.92	44.08	21.15	25.74	0.24
2680	0.60	30.92	34.40	19.35	21.76	0.27
2950	0.90	20.16	21.69	14.00	14.14	0.48
3000	0.98	18.85	20.25	13.34	13.32	0.54
3300	1.52	12.92	13.12	12.28	12.92	1.29
3500	2.49	7.84	9.36	18.22	20.17	3.22
3560	3.40	5.85	8.82	22.05	12.17	4.65
3650	5.90	3.49	9.18	16.78	5.84	7.86
3750	9.95	2.17	11.04	12.63	2.89	10.74
4000	18.44	1.28	17.31	11.68	1.07	11.38
4100	20.33	1.12	19.66	12.34	0.88	11.80
4600	29.35	0.74	30.34	16.21	0.57	15.15
4800	34.72	0.69	34.82	16.60	0.54	15.87
4900	38.22	0.68	36.99	16.65	0.53	16.14
5000	42.21	0.67	38.59	16.57	0.52	16.42
5250	41.00	0.66	37.56	16.48	0.51	16.89
5500	35.81	0.67	34.63	16.73	0.50	17.98
5750	33.13	0.66	32.67	17.01	0.50	19.27
6000	31.48	0.69	31.51	16.81	0.48	18.69
6250	30.47	0.75	31.03	15.46	0.46	16.58
6500	29.76	0.86	30.93	13.41	0.43	13.87
6750	29.29	1.05	31.09	11.46	0.40	11.27
7000	29.06	1.32	31.31	9.70	0.36	9.24
7250	28.90	1.70	31.46	8.08	0.35	7.49
7500	28.84	2.25	31.42	6.66	0.33	5.93
7750	28.85	3.02	30.97	5.26	0.33	4.54
7800	28.83	3.20	30.80	5.04	0.33	4.31
8000	28.92	4.09	29.99	4.08	0.33	3.38

REV. OR
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URJ
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Typical Performance Curves



Outline Dimensions



CASE #.	A	B	C	D	E	F	G	H	J	K	L	M	N	WT, GRAM
FL905	.74 (18.80)	.90 (22.86)	.54 (13.72)	.50 (12.70)	.04 (1.02)	.16 (4.06)	.29 (7.37)	.37 (9.40)	- -	.122 (3.10)	.496 (12.60)	.106 (2.69)	.122 (3.10)	20.0

Dimensions are in inches (mm). Tolerances: 2Pl. $\pm .03$; 3Pl. $\pm .015$.

Tolerance on hole size and interaxes dimensions to be $\pm .005$.

Notes:

- Case material: Brass.
- Case finish: Nickel plate.



INTERNET <http://www.minicircuits.com>

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