

Diplexer

Connectorized

ZABT-EDU1424+

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.



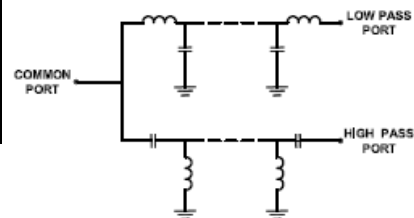
CASE STYLE : FL905

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter		Port	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	Lowpass	10		0.4	0.8	dB
		Highpass	950-2150		0.4	1.5	dB
	Return Loss	Lowpass	10	15	25		dB
		Highpass	950-2150	15	25		dB
		Common	10	15	25		dB
			950-2150	15	25		dB
Stop band isolation		Lowpass	950-2150	35	55		dB
		Highpass	10	70	90		dB
Crossover isolation		Lowpass to Highpass	10-950	45	70		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	SMA FEMALE
Lowpass port	SMA FEMALE
Common port	SMA FEMALE

Surface Mount Diplexer

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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
0.5	0.23	98.44	100.73	31.94	32.19	0.00
5	0.24	104.20	102.43	28.82	28.12	0.00
10	0.28	103.93	106.25	28.28	26.51	0.00
15	0.32	100.84	101.30	35.17	29.83	0.00
40	4.04	96.04	94.06	3.53	3.74	0.00
50	13.41	89.66	95.18	0.74	0.87	0.00
60	22.48	86.47	94.02	0.38	0.48	0.00
90	44.57	81.41	96.84	0.18	0.24	0.01
100	52.83	79.47	96.26	0.16	0.21	0.01
250	54.67	42.70	92.59	0.07	0.07	0.08
470	56.46	12.33	73.88	0.49	0.04	0.69
530	58.16	6.97	68.76	1.35	0.04	1.62
590	61.11	3.31	65.13	3.45	0.05	3.76
690	64.10	0.87	62.53	9.94	0.05	10.20
800	62.13	0.35	61.42	18.96	0.05	18.87
950	60.31	0.23	60.35	30.09	0.06	30.96
1000	59.93	0.22	60.00	30.04	0.06	32.75
1500	56.25	0.18	56.30	25.49	0.09	26.46
2000	57.42	0.18	57.44	31.74	0.11	33.20
2150	55.48	0.18	55.61	31.24	0.13	31.97

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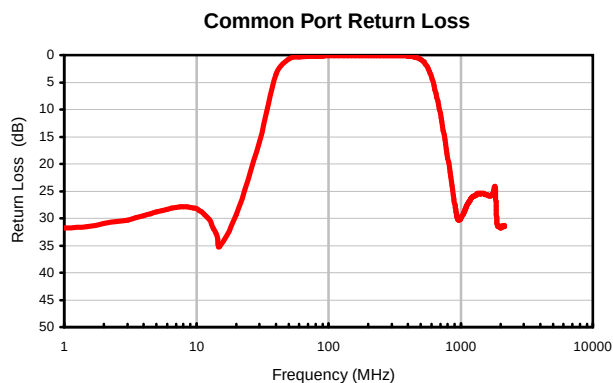
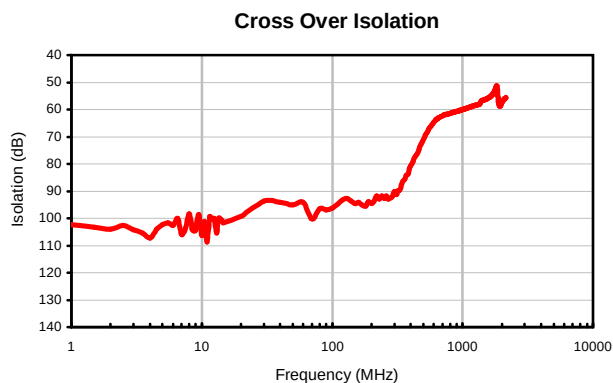
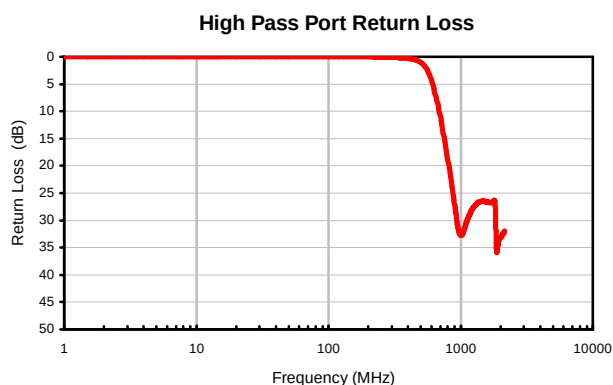
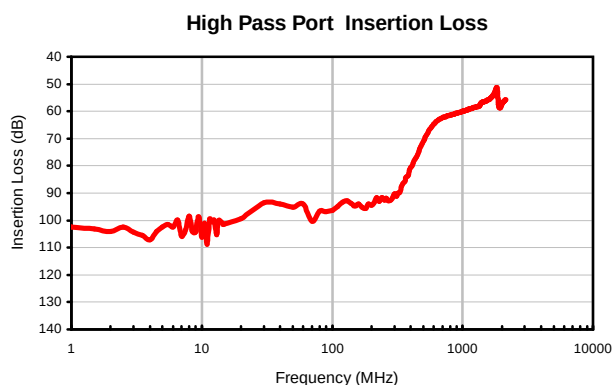
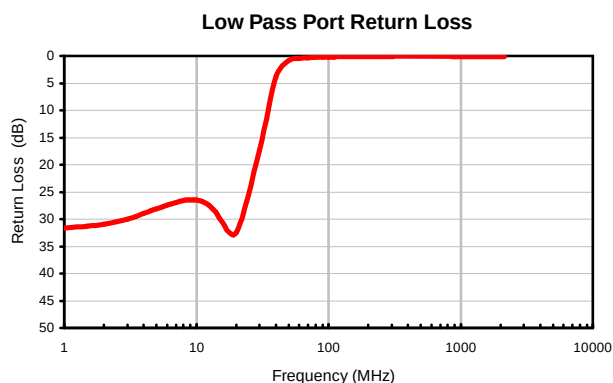
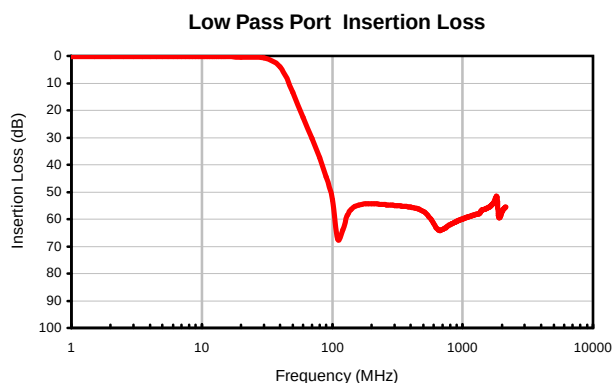
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Surface Mount Diplexer

Typical Performance Curves

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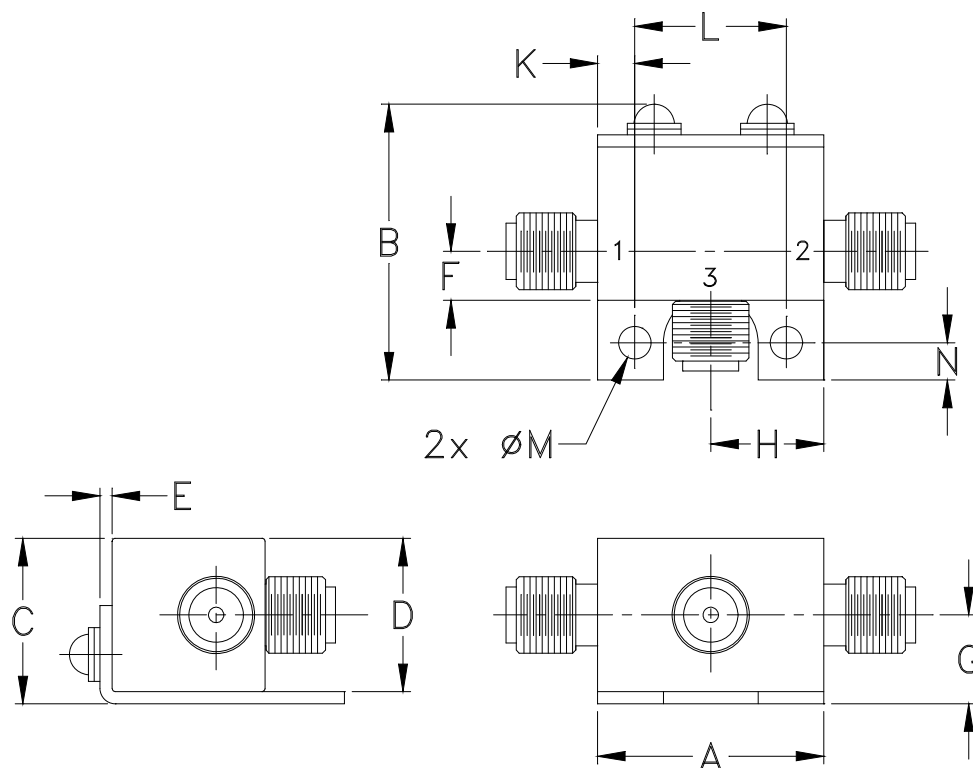
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Outline Dimensions



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.



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