

Diplexer

Connectorized

ZPLX-EDU1400+

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.

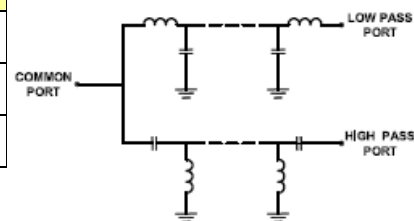


CASE STYLE : FL905

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C						
Parameter	Port	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	Lowpass	10	0.7	1.2	dB
		Highpass	50-90	0.4	1.2	dB
			950-1800	0.2	1	dB
			1800-2150	0.3	1	dB
	Return Loss	Lowpass	10	17	22	dB
		Highpass	50-90	17	25	dB
			950-2150	17	25	dB
			1800-2150	17	25	dB
		Common	10	17	25	dB
			50-90	17	25	dB
			950-2150	17	25	dB
Stop band isolation	Lowpass	50-90	45	60		dB
		950-2150	40	55		dB
	Highpass	10	45	60		dB
Crossover isolation	Lowpass to Highpass	10-50	25	50		dB

Functional Schematic

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



PORT CONNECTIONS	
Highpass port	SMA (F)
Lowpass port	SMA (F)
Common port	SMA (F)

Surface Mount Diplexer

ZPLX-EDU1400+

Typical Performance Data

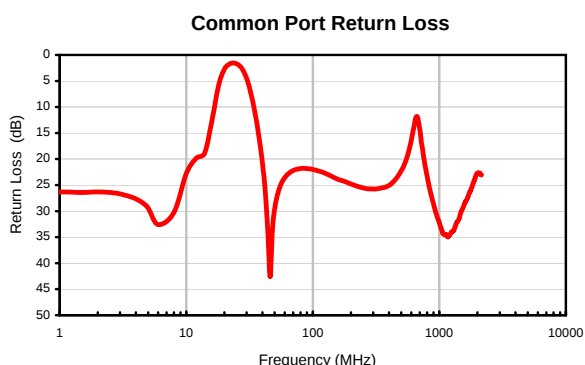
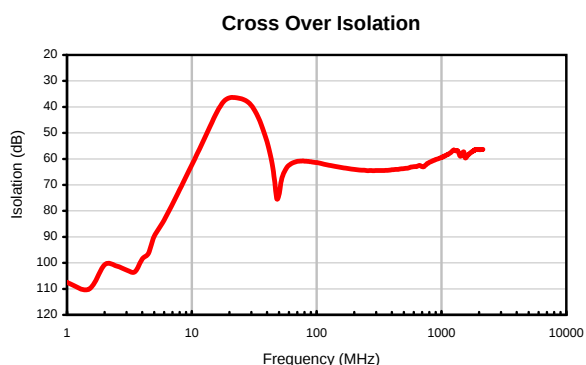
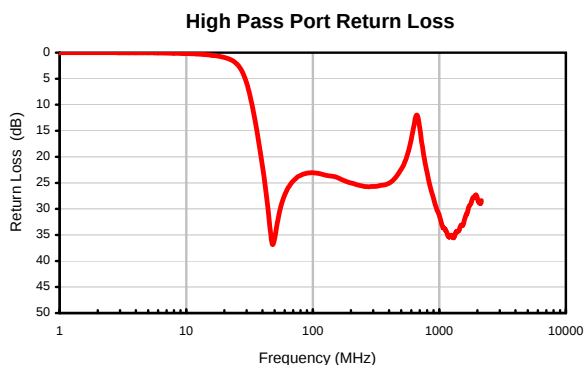
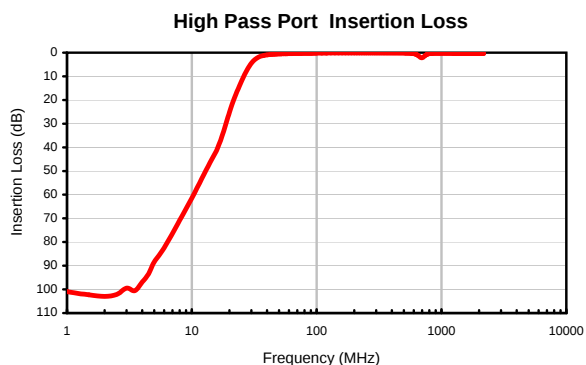
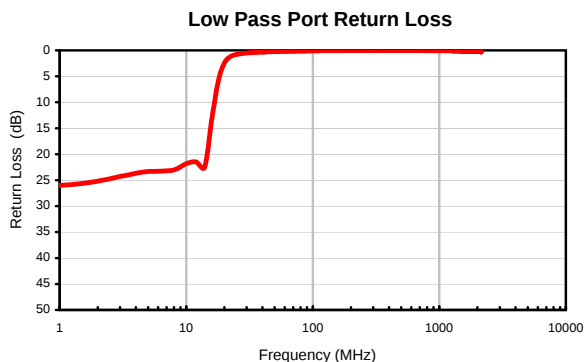
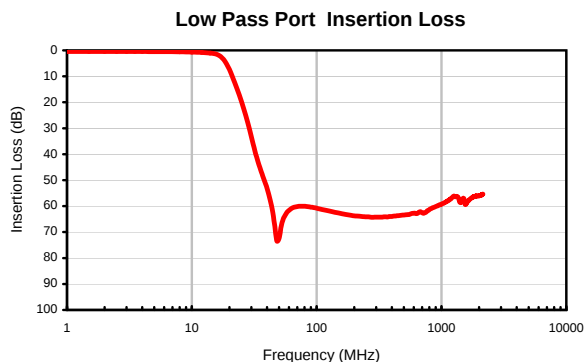
FREQUENCY (MHz)	INSERTION LOSS (dB)		CROSS OVER ISOLATION (dB) Between LPF and HPF	RETURN LOSS (dB)		
	Low Pass Port	High Pass Port		Common Port	Low Pass Port	High Pass Port
1	0.43	96.39	98.70	26.33	26.02	0.00
5	0.48	86.92	88.11	29.44	23.33	0.04
10	0.68	61.12	61.97	22.80	21.83	0.17
16	1.47	40.29	41.51	12.53	12.94	0.51
18	3.19	32.78	37.66	5.84	5.65	0.68
20	6.89	24.87	36.06	2.73	2.45	0.92
22	11.71	18.77	35.85	1.71	1.31	1.25
24	16.73	13.91	36.12	1.56	0.89	1.76
28	27.07	6.71	37.47	2.87	0.59	3.87
30	32.56	4.37	38.87	4.49	0.52	5.81
50	67.81	0.56	68.36	29.60	0.24	35.68
90	59.50	0.25	60.29	21.82	0.10	23.14
100	59.98	0.22	60.52	22.00	0.09	23.06
500	62.62	0.14	62.81	22.26	0.03	22.39
950	59.18	0.17	59.43	30.69	0.05	29.93
1100	57.70	0.15	58.09	34.49	0.06	33.81
1250	55.22	0.15	55.68	34.01	0.07	35.09
1800	55.63	0.21	56.02	25.52	0.12	28.50
2000	55.43	0.33	55.79	22.70	0.16	28.04
2150	54.93	0.32	55.72	23.06	0.31	28.39

REV. X1
ZPLX-EDU1400+
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Page 1 of 1

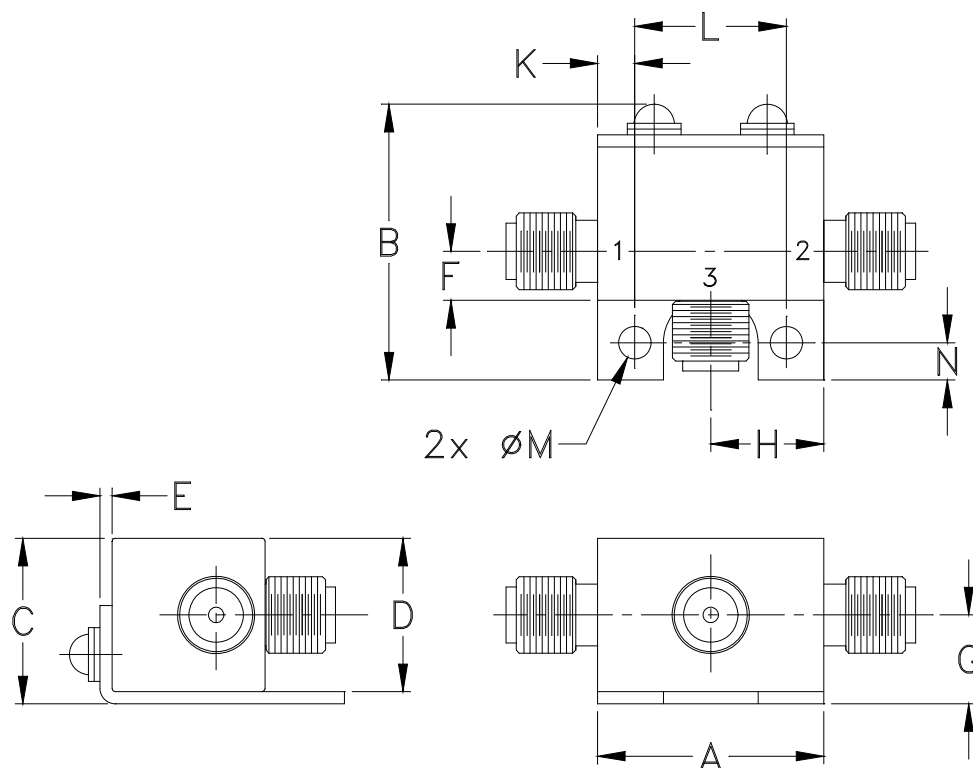
Surface Mount Diplexer

Typical Performance Curves

ZPLX-EDU1400+



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:

1. Case material: Brass.
2. Case finish: Nickel plate.



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