

Diplexer

Connectorized

DPLX-EDU1383+

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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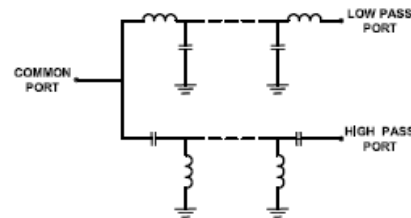
CASE STYLE : FL905

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter		Port	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	Lowpass	9.8-10.2	-	0.5	1	dB
		Highpass	854-1870	-	0.3	1	dB
	Return Loss	Lowpass	9.8-10.2	12	18	-	dB
		Highpass	854-1870	12	20	-	dB
		Common	9.8-10.2	12	18	-	dB
			854-1870	12	20	-	dB
Stop band isolation		Lowpass	854-1870	40	60	-	dB
		Highpass	9.8-10.2	60	90	-	dB
Crossover isolation		Lowpass to Highpass	10.2-854	48	80	-	dB

MAXIMUM RATINGS

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	400mW

**PORT CONNECTIONS**

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

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	0.34	93.34	96.89	28.34	28.42	0.00
9.8	0.46	93.68	94.59	19.95	19.16	0.00
10.2	0.47	95.02	97.66	20.18	19.38	0.00
15.0	0.58	97.64	94.91	30.06	27.74	0.00
20.0	1.02	97.44	96.69	14.16	15.32	0.00
50.0	36.28	86.20	90.92	0.25	0.51	0.00
100.0	53.80	75.48	95.82	0.09	0.16	0.01
500.0	62.56	2.28	64.62	5.05	0.04	5.31
750.0	60.40	0.29	61.18	18.54	0.04	19.44
854.0	59.97	0.26	60.38	17.90	0.05	18.76
1000.0	59.06	0.23	59.10	18.81	0.06	19.65
1500.0	56.68	0.18	56.54	24.37	0.08	25.09
1870.0	55.29	0.19	54.92	30.07	0.11	31.47
2000.0	55.45	0.21	55.64	29.14	0.11	29.69
2250.0	53.63	0.31	54.39	36.34	0.12	26.84
2500.0	52.42	0.22	53.25	24.98	0.17	24.35
3000.0	49.42	0.28	52.32	18.13	2.27	18.13
4000.0	49.00	0.87	52.76	12.06	0.23	11.10
5000.0	34.41	1.27	34.16	8.26	0.64	7.66
6000.0	22.23	1.66	25.76	11.04	1.23	8.26

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IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant

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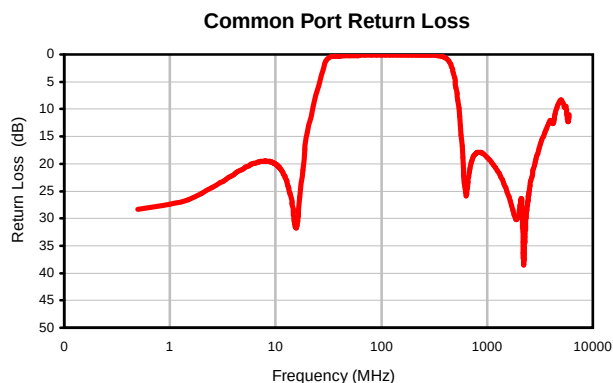
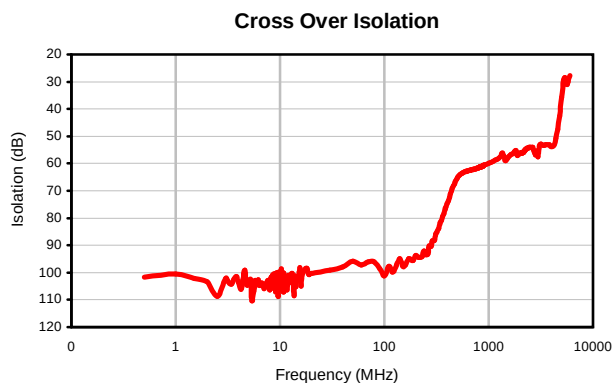
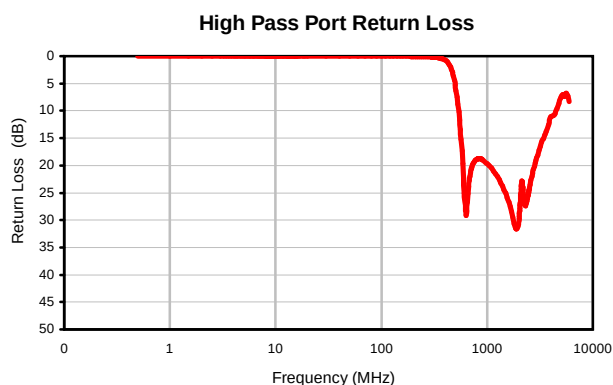
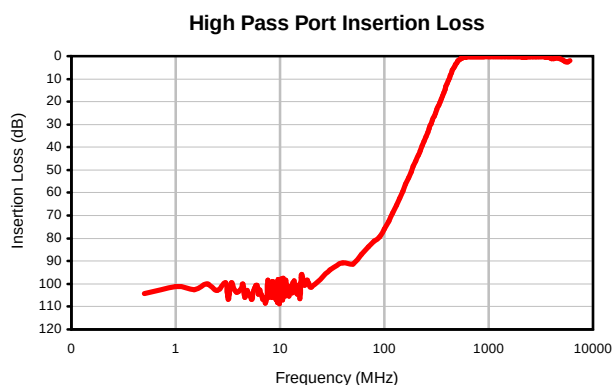
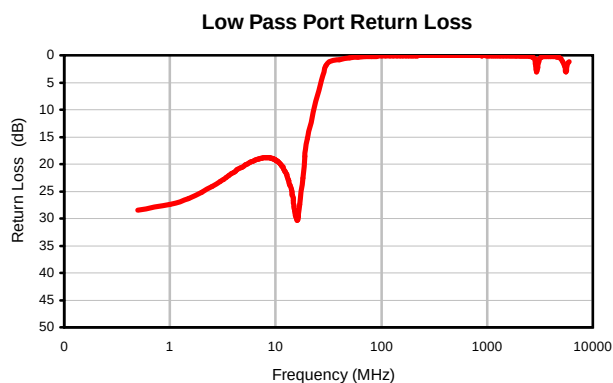
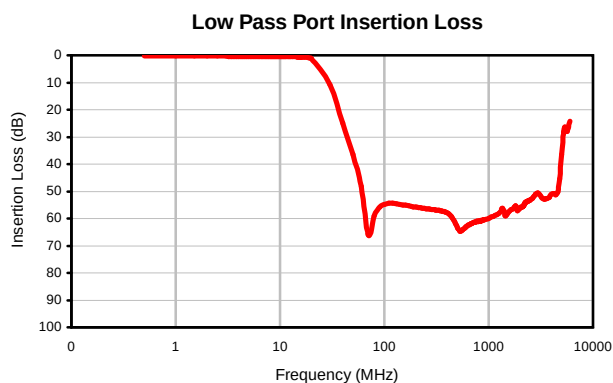
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Surface Mount Diplexer

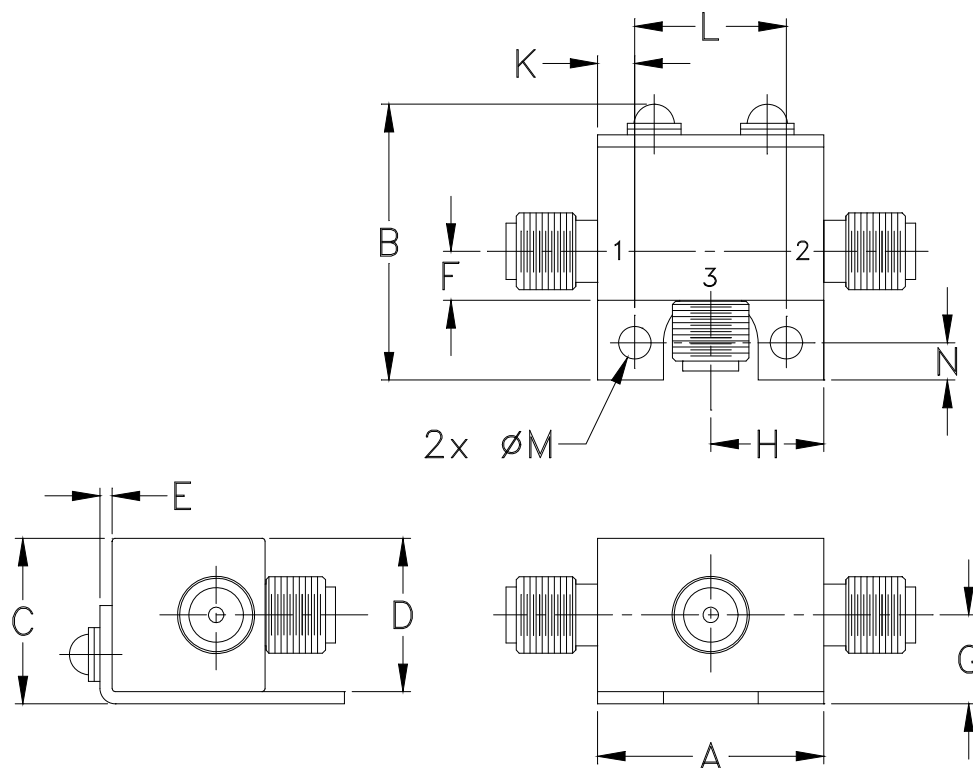
Typical Performance Curves

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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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