

Diplexer

Coaxial

ZDPL-EDU2429_1

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.

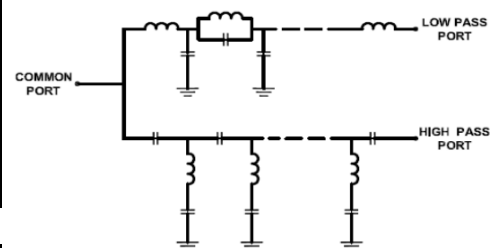
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CASE STYLE : F2239

ELECTRICAL SPECIFICATIONS 75Ω @ +25°C							
Parameter		Port	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	Lowpass	DC-204	-	1	1.5	dB
		Highpass	258-1700	-	1	1.5	dB
	Return Loss	Lowpass	DC-204	20	24	-	dB
		Highpass	258-1400	18	23	-	dB
			1400-1700	15	20	-	dB
		Common	DC-204	20	24	-	dB
			258-1400	18	23	-	dB
			1400-1700	15	20	-	dB
Stop Band Isolation		Lowpass	258-1700	45	65	-	dB
		Highpass	DC-204	42	50	-	dB
Cross Over Isolation		LP-HP	204-258	33	37	-	dB

Functional Schematic



MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1W

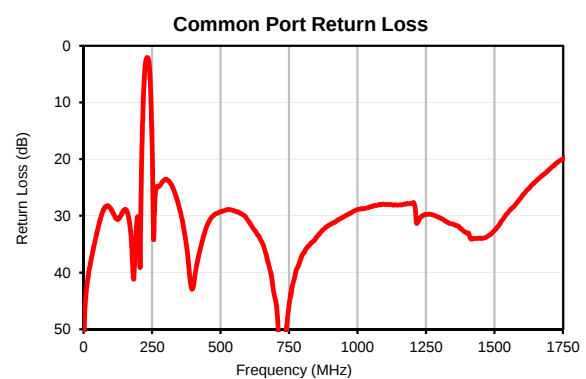
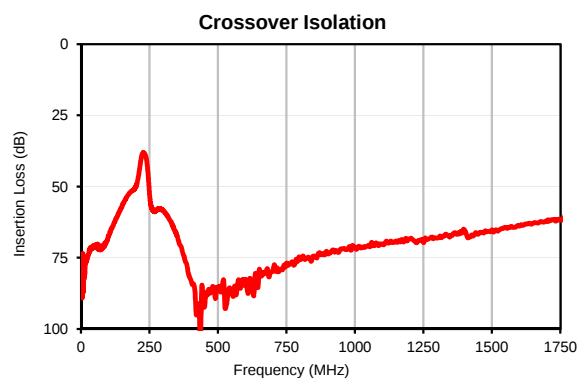
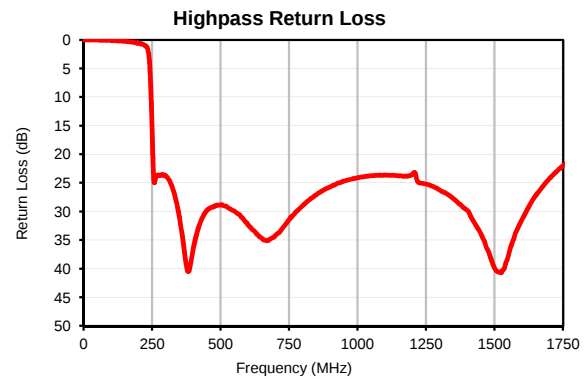
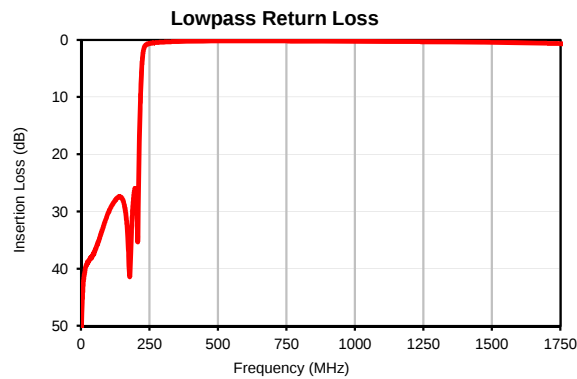
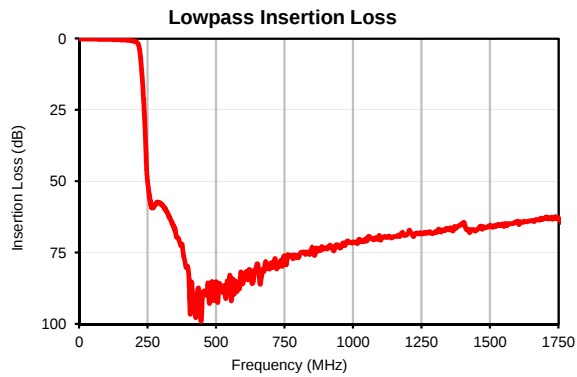
PIN CONNECTIONS	
Highpass port	3
Lowpass port	2
Common port	1

Case style size	1.25"X1.25"X0.75"
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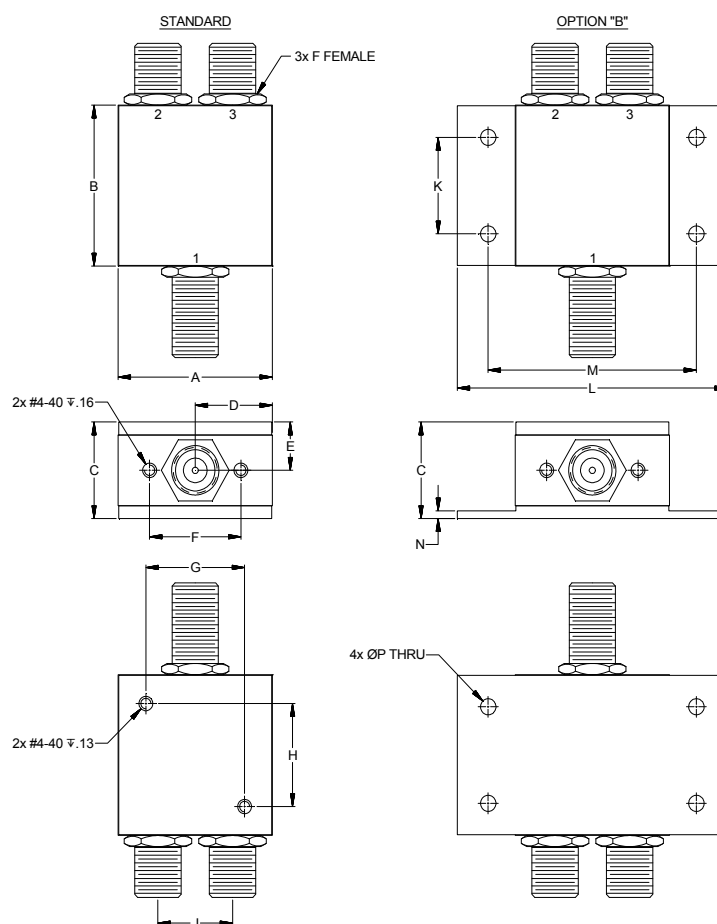
Typical Performance Data

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
1	0.02	91.75	82.11	53.42	51.27	0.01
10	0.06	81.26	80.19	42.86	41.37	0.00
50	0.14	70.19	70.88	32.58	36.85	0.02
100	0.24	67.37	67.16	28.80	30.10	0.08
204	0.96	47.79	48.66	35.55	30.67	0.60
206	1.03	47.05	47.79	38.62	35.22	0.62
219	3.30	42.03	39.96	7.71	6.72	0.81
225	8.07	30.57	38.15	3.25	2.49	0.97
226	9.17	28.41	38.06	2.89	2.14	1.00
230	14.18	20.75	38.21	2.12	1.30	1.21
234	20.07	14.24	38.89	2.10	0.95	1.66
240	31.50	6.55	41.64	3.91	0.73	3.80
241	33.89	5.62	42.48	4.60	0.71	4.50
245	44.01	3.03	46.90	8.93	0.65	8.62
250	50.80	1.73	53.41	18.32	0.60	16.30
258	56.49	1.16	57.66	29.27	0.53	24.91
300	58.15	0.58	58.46	23.55	0.37	23.76
500	85.33	0.31	85.53	29.25	0.17	28.82
1000	71.22	0.37	71.23	28.86	0.24	24.07
1700	63.05	0.50	62.17	21.77	0.58	24.22

Typical Performance Curves



Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J
F2239	1.25 (31.75)	1.25 (31.75)	.75 (19.05)	.63 (15.88)	.38 (9.53)	.74 (18.80)	.80 (20.32)	.80 (20.32)	.61 (15.37)

CASE#	K	L	M	N	P	WT.GRAMS
F2239	.75 (19.05)	2.19 (55.58)	1.69 (42.88)	.06 (1.52)	.125 (3.18)	85

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

Notes:

- Case material: Aluminum alloy.
- Case finish:
 - For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
- Mounting bracket available on request: Add suffix B to part number.
- For Bracket version, option "B" dimension "C" changes from .76 to 1.00 inches when connectors type change.
- Refer to the individual model sheet for the type of connectors available.



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