

Diplexer

Plug-In

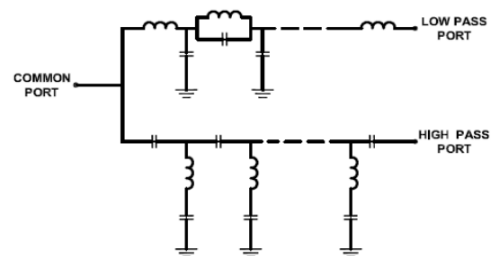
DPLC-EDU2347_1**Important Note**

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.

Please click "Back", and then click "Contact Us" for Applications support.

**CASE STYLE : QB2223**

ELECTRICAL SPECIFICATIONS 75Ω @ +25°C							
Parameter		Port	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	Lowpass	DC-65	-	1	1.6	dB
		Highpass	85-1220	-	1	1.6	dB
	Return Loss	Lowpass	DC-65	20	24	-	dB
		Highpass	85-1220	18	24	-	dB
		Common	DC-65	20	24	-	dB
			85-1220	18	24	-	dB
Stop band isolation		Lowpass	85-1220	40	50	-	dB
		Highpass	DC-65	43	50	-	dB
		Cross over	65-85	35	40	-	dB

Functional Schematic

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

PIN CONNECTIONS	
Highpass port	7
Lowpass port	1
Common port	4
Ground	2,3,5,6,8,9

Case style size	1.243"X1.117"X0.630"
-----------------	----------------------



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant
P.O. Box 350160, Brooklyn, New York 11235-0005 (718) 934-4500 Fax (718) 332-4061



The Design Engineers Search Engine finds the model you need, instantly • For detailed performance specs & shopping online see

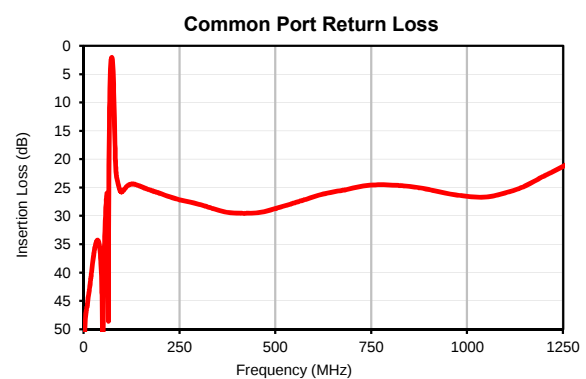
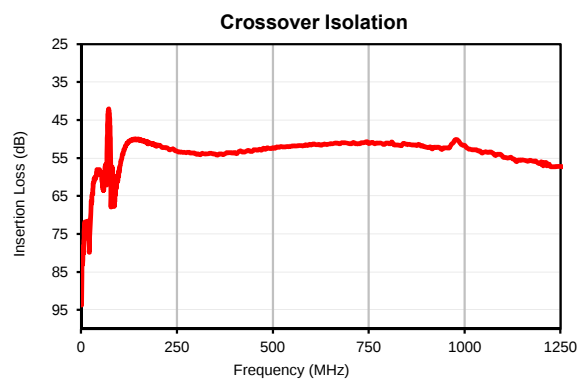
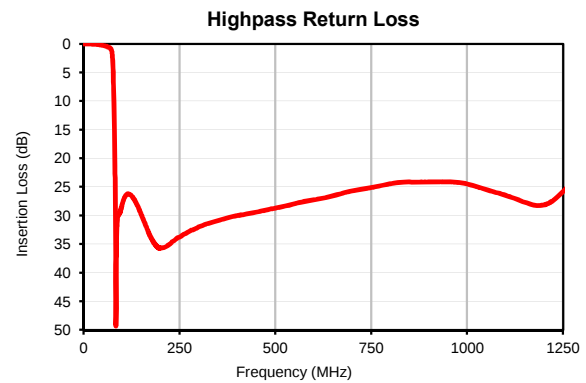
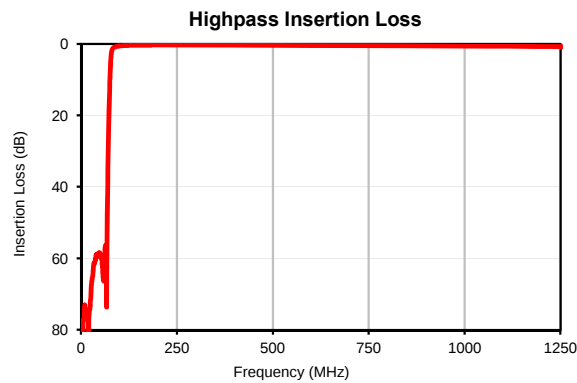
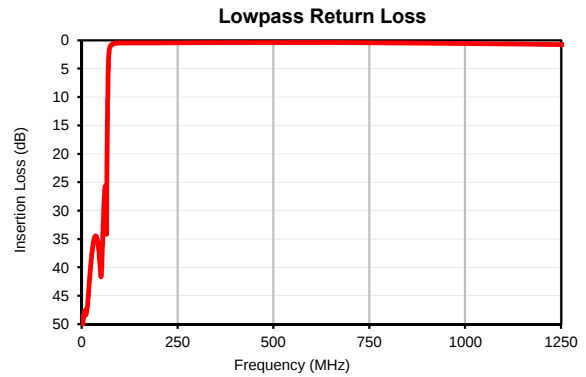
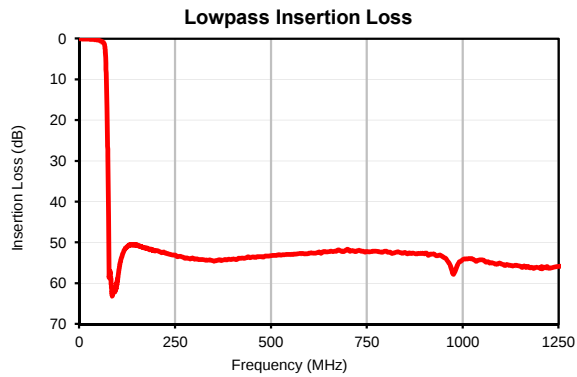


REV. OR
DPLC-EDU2347_1
URJ
170427
Page 1 of 3

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	0.01	88.53	93.67	51.69	52.76	0.00
10.0	0.06	74.57	73.35	45.27	47.79	0.01
30.0	0.14	64.78	64.39	35.33	35.64	0.06
65.0	1.29	59.59	58.14	30.96	29.11	0.55
67.0	2.17	57.49	56.22	13.39	12.95	0.62
68.0	3.32	47.45	49.36	8.74	8.28	0.66
70.0	8.37	32.04	42.96	3.66	3.15	0.77
70.5	10.20	28.93	42.48	3.07	2.54	0.81
72.0	16.60	21.03	42.25	2.18	1.55	1.00
72.5	19.00	18.77	42.49	2.07	1.38	1.10
73.0	21.53	16.64	43.01	2.02	1.24	1.23
74.0	27.08	12.75	44.55	2.14	1.06	1.63
74.5	30.18	11.00	45.51	2.32	0.99	1.94
75.0	33.60	9.37	46.91	2.60	0.94	2.34
78.0	58.29	3.15	67.82	7.36	0.72	7.98
85.0	62.23	0.99	65.48	22.77	0.53	37.94
100.0	58.96	0.55	57.32	25.71	0.44	28.09
500.0	53.24	0.36	52.24	28.71	0.36	28.70
950.0	53.62	0.56	52.29	26.04	0.50	24.10
1220.0	55.90	0.72	56.61	1.243"X1.117"X0.6	0.72	27.56

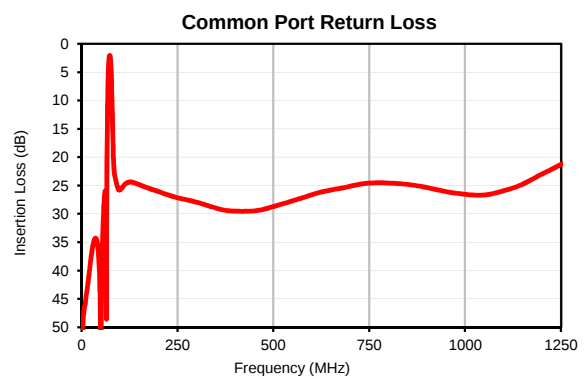
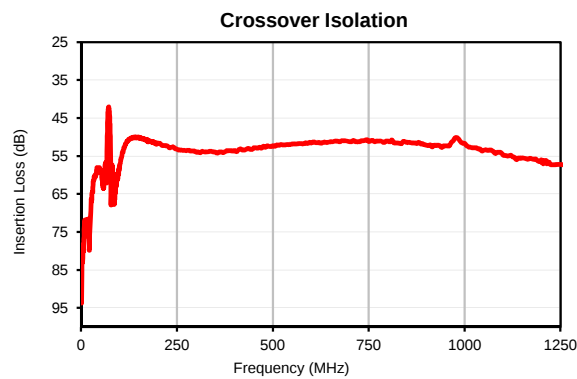
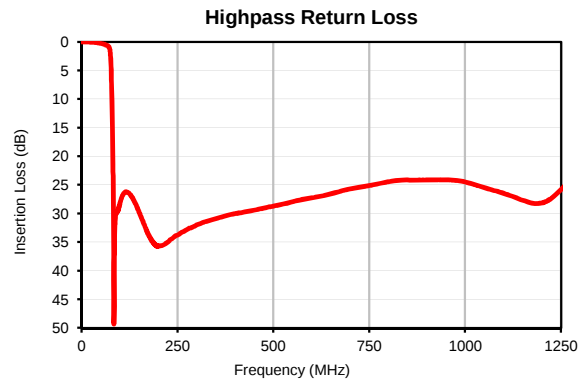
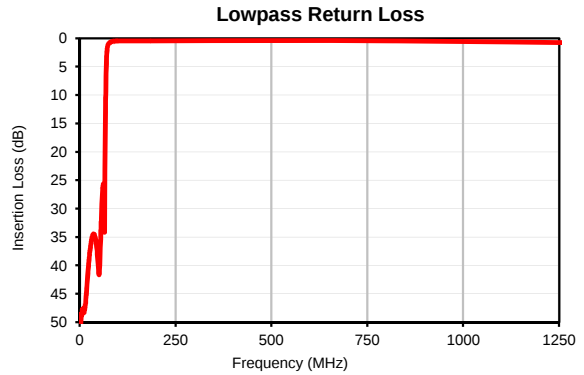
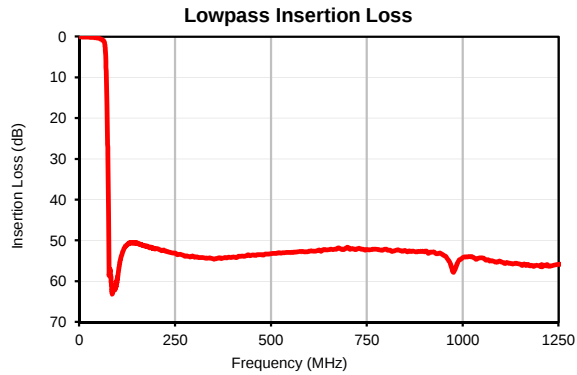
Typical Performance Curves



Typical Performance Data

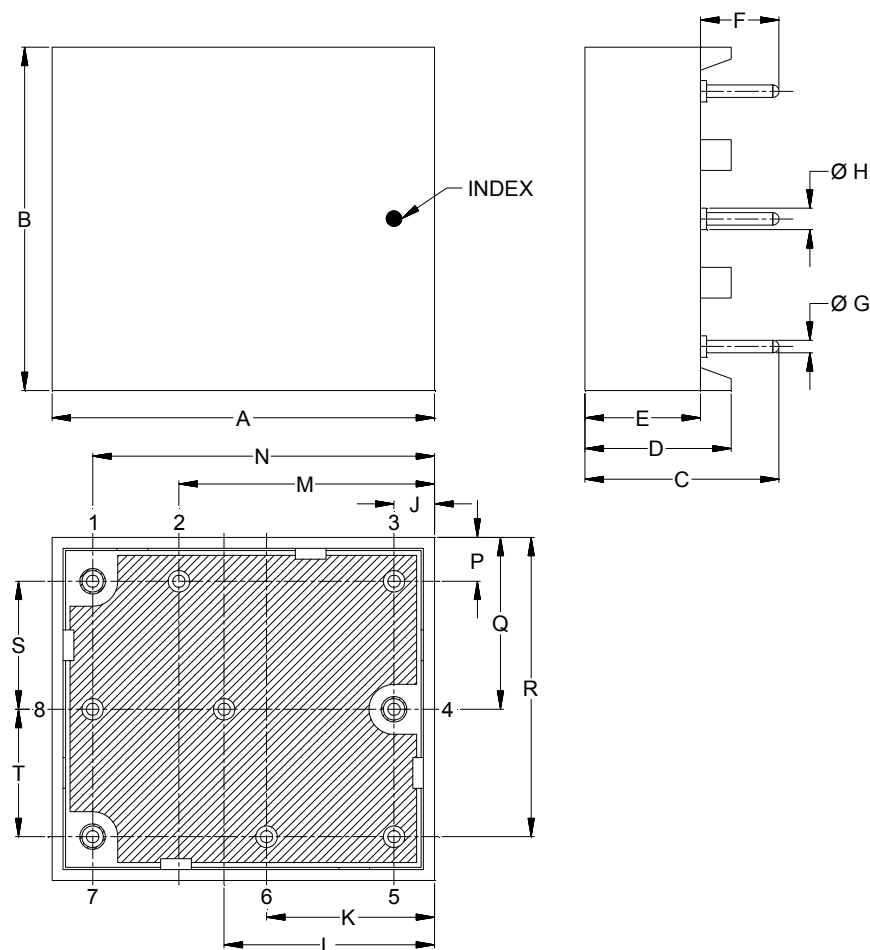
FREQUENCY	INSERTION LOSS		Cross over isolation	RETURN LOSS		
(MHz)	(dB)		(dB)	(dB)		
	Lowpass port	Highpass port	(between LPF and HPF)	Common port	Lowpass port	Highpass port
1.0	0.01	88.53	93.67	51.69	52.76	0.00
10.0	0.06	74.57	73.35	45.27	47.79	0.01
30.0	0.14	64.78	64.39	35.33	35.64	0.06
65.0	1.29	59.59	58.14	30.96	29.11	0.55
67.0	2.17	57.49	56.22	13.39	12.95	0.62
68.0	3.32	47.45	49.36	8.74	8.28	0.66
70.0	8.37	32.04	42.96	3.66	3.15	0.77
70.5	10.20	28.93	42.48	3.07	2.54	0.81
72.0	16.60	21.03	42.25	2.18	1.55	1.00
72.5	19.00	18.77	42.49	2.07	1.38	1.10
73.0	21.53	16.64	43.01	2.02	1.24	1.23
74.0	27.08	12.75	44.55	2.14	1.06	1.63
74.5	30.18	11.00	45.51	2.32	0.99	1.94
75.0	33.60	9.37	46.91	2.60	0.94	2.34
78.0	58.29	3.15	67.82	7.36	0.72	7.98
85.0	62.23	0.99	65.48	22.77	0.53	37.94
100.0	58.96	0.55	57.32	25.71	0.44	28.09
500.0	53.24	0.36	52.24	28.71	0.36	28.70
950.0	53.62	0.56	52.29	26.04	0.50	24.10
1220.0	55.90	0.72	56.61	22.29	0.72	27.56

Typical Performance Curves



Outline Dimensions

QB2223



CASE#	A	B	C	D	E	F	G	H	J	K
QB2223	1.243 (31.56)	1.117 (28.36)	.630 (16.00)	.475 (12.07)	.375 (9.53)	.255 (6.48)	.040 (1.02)	.070 (1.78)	.132 (3.35)	.546 (13.87)

CASE#	L	M	N	P	Q	R	S	T	WT.GRAMS
QB2223	.684 (17.37)	.831 (21.10)	1.111 (28.22)	.143 (3.63)	.559 (14.21)	.974 (24.74)	.417 (10.58)	.415 (10.53)	7

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .015$; 3 Pl. $\pm .030$

Notes:

1. Cover material: Fortan PPS
2. Pin material: Brass alloy [C3604]
3. Pin finish: Gold flash
4. Tolerance on pin diameter $\pm .001$
5. Base: Printed wiring laminate.



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS