

Diplexer

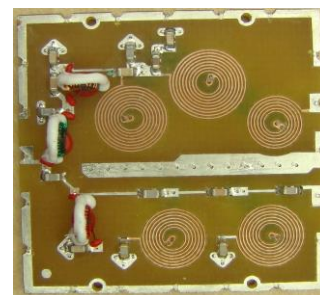
Surface Mount

DPLX-EDU1480

Important Note

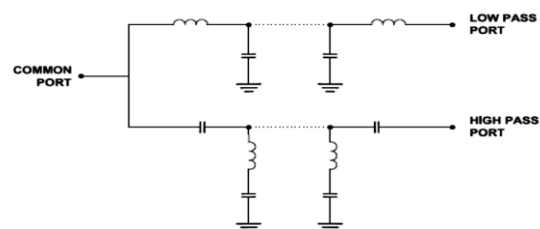
This model has been designed, built and tested in our engineering department. Performance data represents model capability.
At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.

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



CASE STYLE : HR1176

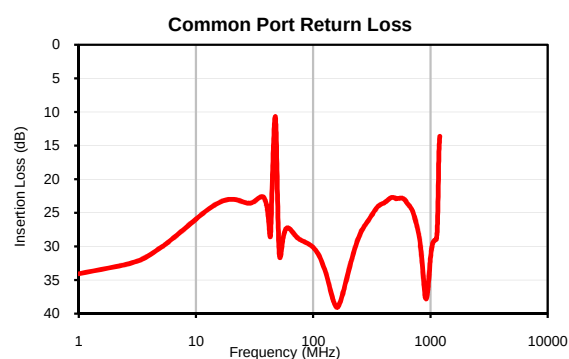
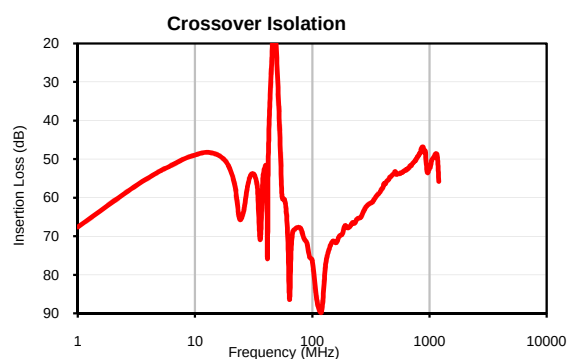
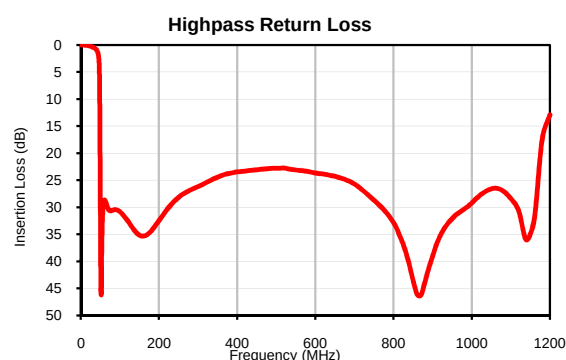
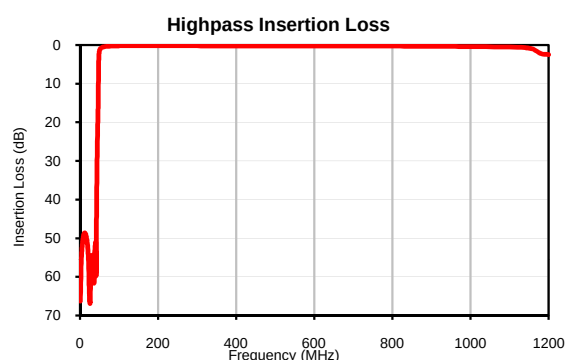
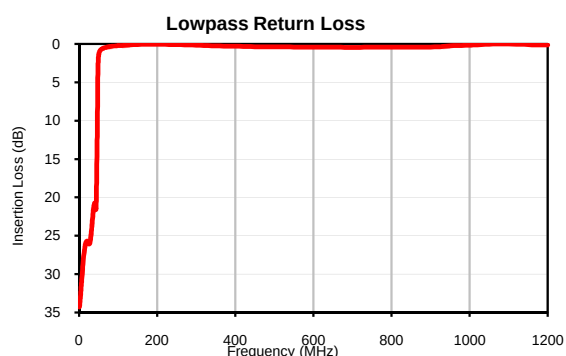
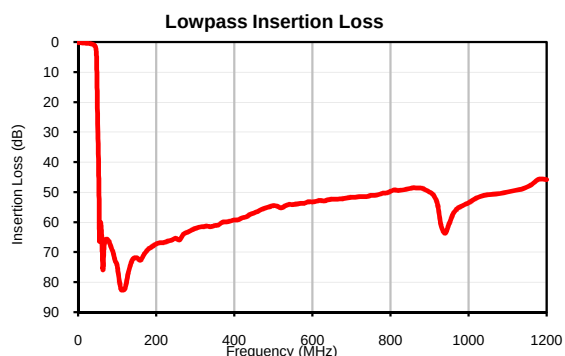
ELECTRICAL SPECIFICATIONS 75Ω @ +25°C							
Parameter		Port	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	Lowpass	5-42		1	1.5	dB
		Highpass	54-1000		1	1.2	dB
	Return Loss	Lowpass	5-42	15	20		dB
		Highpass	54-1000	14	18		dB
		Common	5-42	16	20		dB
			54-1000	13	18		dB
Stop band isolation		Lowpass	54-1000	35	40		dB
		Highpass	5-42	35	40		dB

Functional Schematic

MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.3W

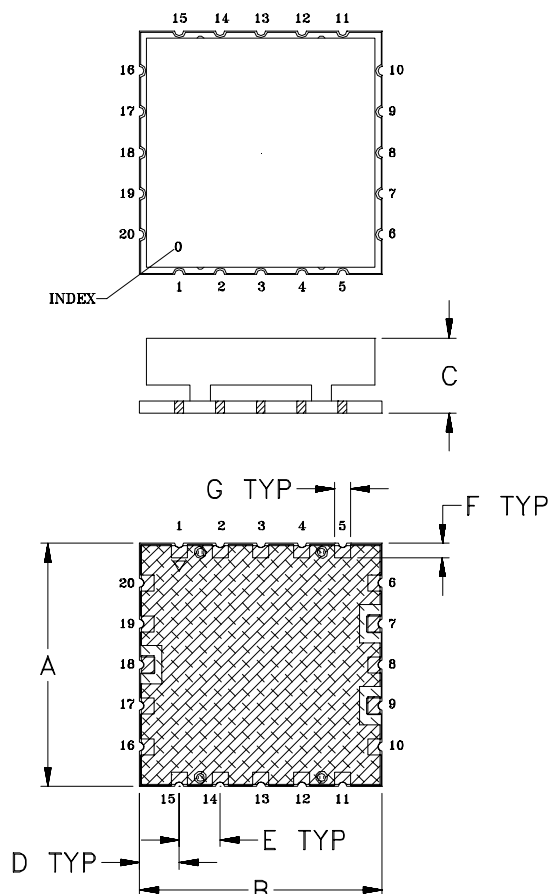
PIN CONNECTIONS	
Highpass port	7
Lowpass port	9
Common port	18
Ground	1,2,3,4,5,6,8,10,11,12,13,14,15,16,17,19,20

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	0.17	66.25	67.56	34.06	34.28	0.00
5	0.20	52.92	53.11	30.16	32.00	0.01
42	1.03	50.96	53.04	27.14	21.20	1.18
44	1.35	29.73	31.50	24.43	20.79	1.64
45.5	1.94	21.05	21.97	16.17	15.66	2.36
46	2.30	18.85	19.26	14.00	13.80	2.77
47	3.67	12.59	14.87	10.94	10.15	4.41
48.5	12.06	3.00	16.41	15.03	3.24	15.06
49	16.20	2.14	19.16	18.63	2.37	21.22
49.5	20.11	1.71	22.15	22.33	1.90	28.10
51	30.48	1.16	31.36	30.45	1.28	43.73
54	53.53	0.79	51.93	29.99	0.87	34.52
100	74.40	0.22	76.22	30.16	0.22	30.82
250	65.34	0.19	65.25	28.21	0.10	28.13
400	59.25	0.25	57.39	23.55	0.30	23.44
750	51.07	0.28	50.37	26.36	0.41	28.69
900	49.93	0.35	48.08	37.50	0.40	39.04
1000	53.52	0.41	52.43	31.61	0.16	29.20
1100	49.93	0.53	49.24	29.00	0.02	28.37
1200	45.78	2.50	55.75	13.63	0.14	12.89

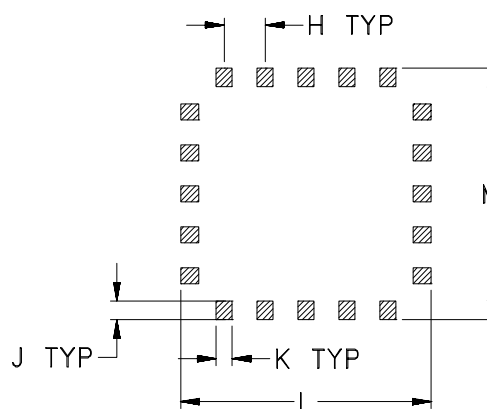


Outline Dimensions

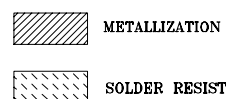
HR1176



PCB Land Pattern



Suggested Layout,
Tolerance to be within ± 0.002



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	WT. GRAM
HR1176	1.200 (30.48)	1.200 (30.48)	.370 (9.40)	.196 (4.98)	.202 (5.13)	.071 (1.80)	.079 (2.01)	.202 (5.13)	.091 (2.31)	.079 (2.01)	1.240 (31.50)	1.240 (31.50)	8.5

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

Notes:

- Case material: Nickel-Silver alloy.
- Base: Printed wiring laminate.
- Termination finish:

For RoHS Case Styles: 3-5 μ inch Gold over 120-240 μ inch Nickel plate.

For RoHS-5 Case Styles: Tin-Lead plate.



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



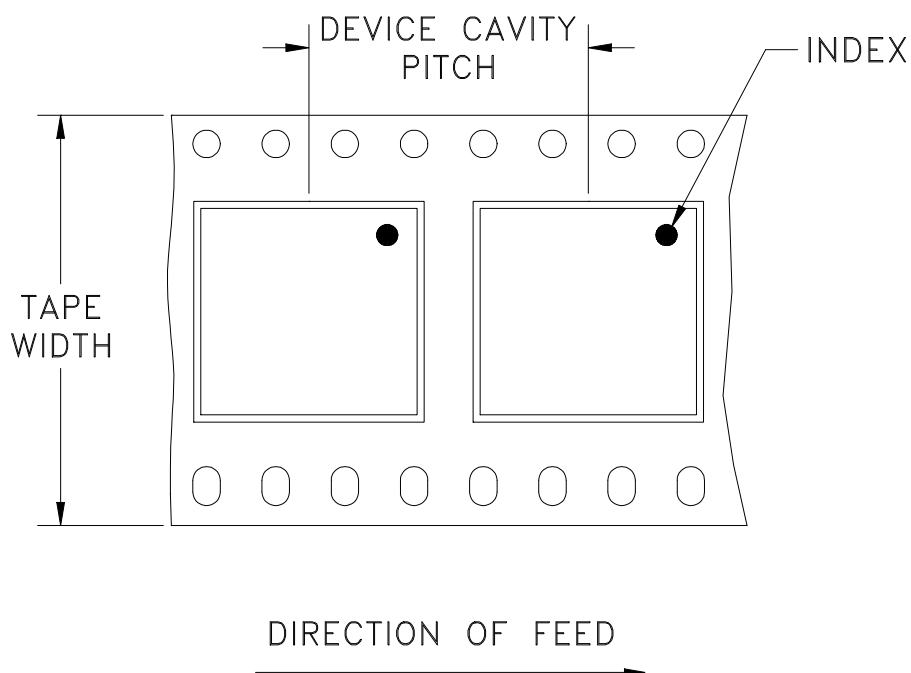
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RF/IF MICROWAVE COMPONENTS



Tape & Reel Packaging TR-F80

DEVICE ORIENTATION IN T&R



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel
44	40	13	100

Mini-Circuits carrier tape materials provide protection from ESD (Electro-Static Discharge) during handling and transportation. Tapes are static dissipative and comply with industry standards EIA-481/EIA-541.

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