

Diplexer

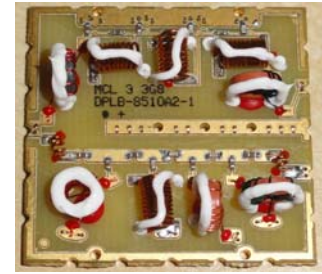
Surface Mount

DPLB-EDU2491

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.

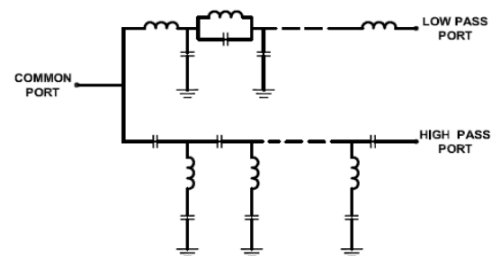


CASE STYLE : NU1620

ELECTRICAL SPECIFICATIONS 75Ω @ +25°C							
Parameter		Port	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	Lowpass	5-85	-	1.5	-	dB
		Highpass	102-1220	-	1.5	-	dB
	Return Loss	Lowpass	5-85	-	23	-	dB
		Highpass	102-1220	-	21	-	dB
		Common	5-85	-	23	-	dB
			102-1220	-	21	-	dB
Stop band isolation		Lowpass	102-1220	-	45	-	dB
		Highpass	5-85	-	56	-	dB
		Cross over	85-102	-	43	-	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	9
Common port	18
Ground	1-6,8,10-17,19,20

Case style size	1.181"X1.181"X0.280"
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IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant
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Page 1 of 1

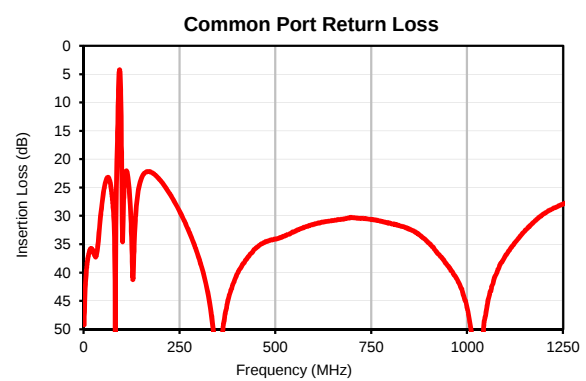
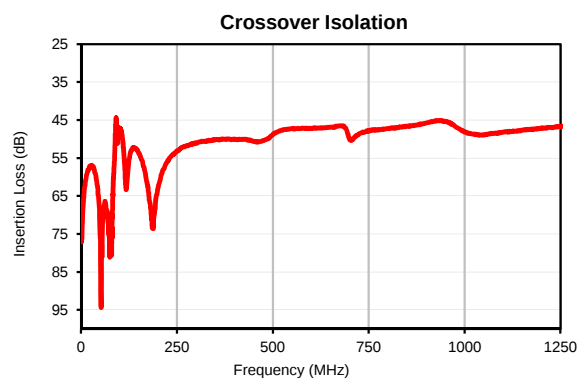
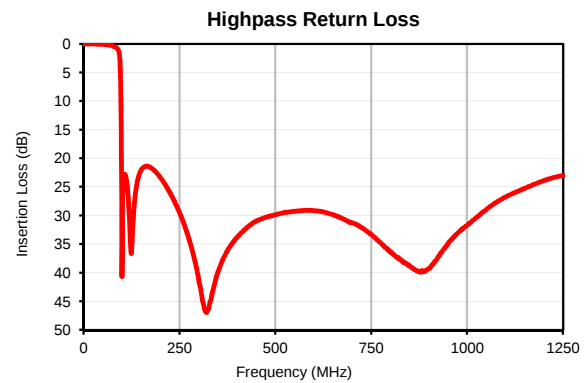
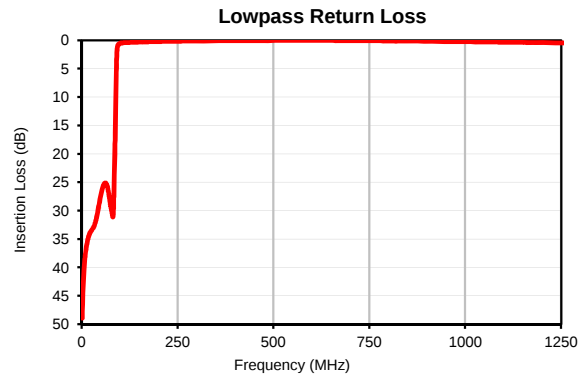
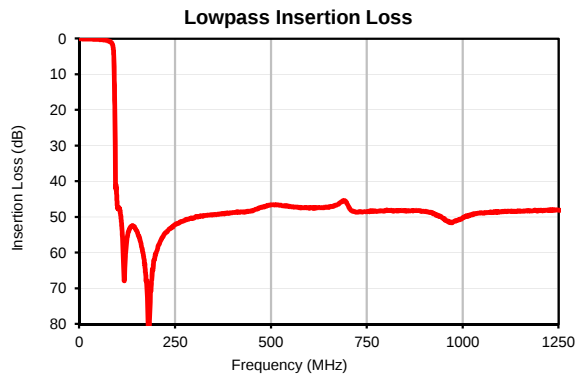
Typical Performance Data

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	80.48	77.07	49.21	48.92	0.00
5.0	0.04	67.01	67.59	41.43	41.28	0.00
40.0	0.16	59.81	60.88	32.96	30.68	0.04
85.0	1.27	57.68	58.70	25.46	23.08	0.62
89.0	3.25	50.26	48.34	13.39	9.44	0.91
90.0	5.36	43.40	45.40	9.76	5.57	1.02
91.0	9.46	33.88	44.40	6.67	2.90	1.18
92.0	15.71	25.72	45.23	4.97	1.62	1.40
93.0	23.91	19.16	47.72	4.28	1.11	1.76
94.0	34.78	13.66	50.66	4.30	0.87	2.43
95.0	42.09	9.11	50.49	5.13	0.75	3.74
96.0	41.10	5.74	48.26	7.16	0.66	6.24
97.0	42.80	3.68	47.15	10.65	0.61	10.36
98.0	45.20	2.60	46.94	15.40	0.56	16.34
102.0	47.44	1.42	47.23	33.29	0.47	25.21
250.0	52.09	0.26	53.16	29.17	0.14	29.51
500.0	46.55	0.28	48.72	34.08	0.01	29.83
750.0	48.44	0.32	47.68	30.59	0.05	33.29
950.0	50.53	0.37	45.27	38.87	0.21	34.95
1220.0	48.11	0.45	46.85	28.82	0.41	23.47

Surface Mount Diplexer

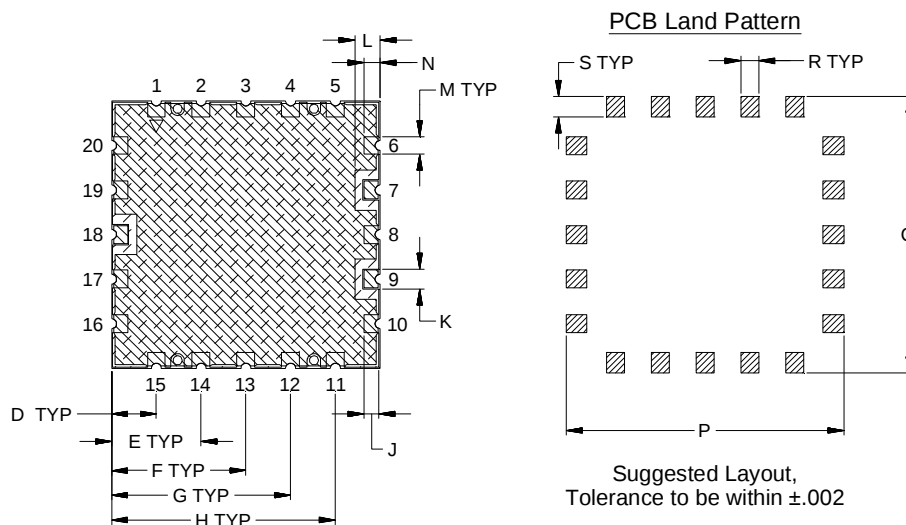
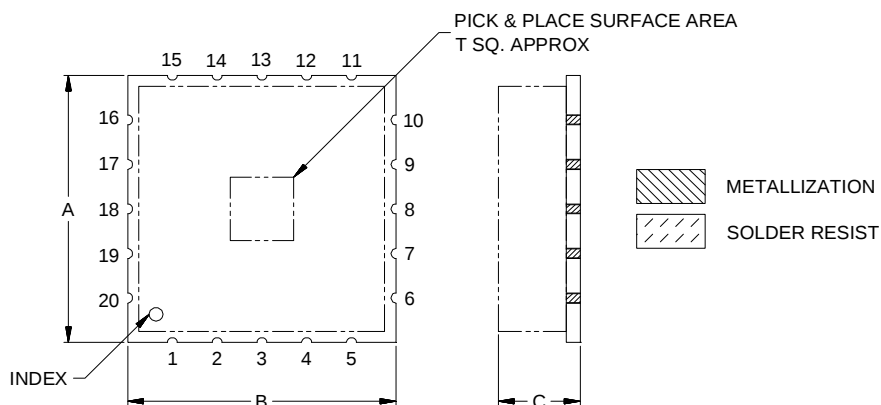
Typical Performance Curves

DPLB-EDU2491



Outline Dimensions

NU1620



CASE#	A	B	C		D	E	F	G	H	J	K	L	M
			Max	Min									
NU1620	1.181 (30.00)	1.181 (30.00)	.280 (7.11)	.205 (5.21)	.197 (5.00)	.394 (10.00)	.591 (15.00)	.787 (20.00)	.984 (25.00)	.066 (1.68)	.089 (2.26)	.111 (2.82)	.079 (2.01)

CASE#	N	P	Q	R	S	T	WT.GRAMS
NU1620	.071 (1.80)	1.221 (31.01)	1.221 (31.01)	.079 (2.01)	.091 (2.31)	.280 (7.11)	3.6

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

Notes:

1. Base: Printed wiring laminate.
2. 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.



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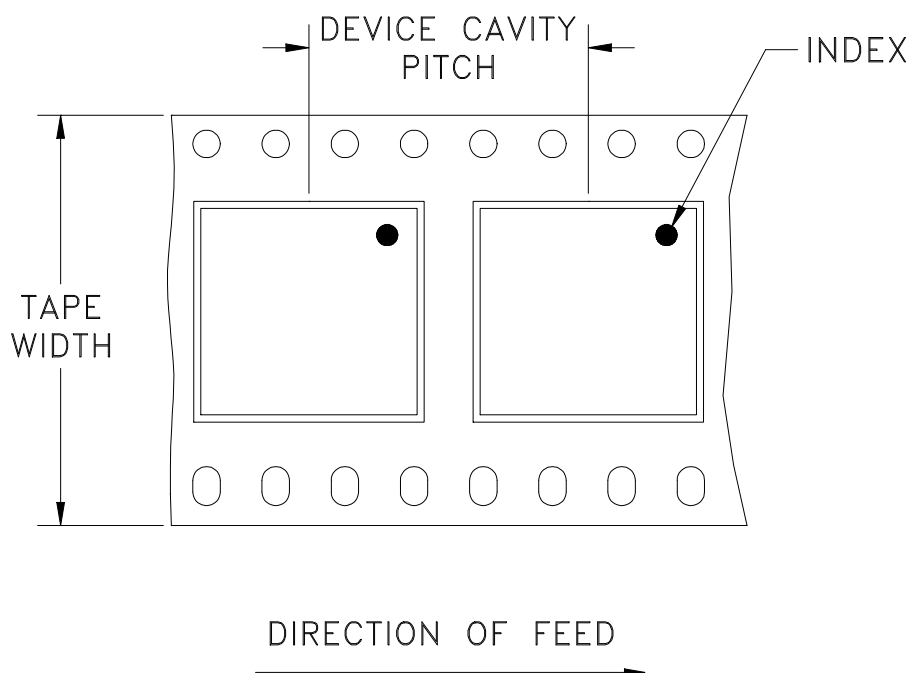


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RF/IF MICROWAVE COMPONENTS

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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