

Band Pass Filter

RBP-EDU1130/1

Surface Mount

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.



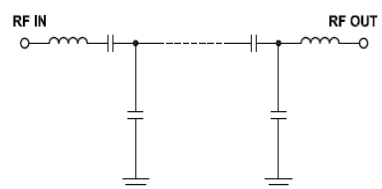
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CASE STYLE : GP731

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 3 dB)	132.24		147.24	MHz
Centre frequency		140		MHz
Low Band (Loss > 40 dB)	DC		60	MHz
Low Band (Loss > 20 dB)	60		100	MHz
High Band (Loss > 20 dB)	180		220	MHz
High Band (Loss > 40 dB)	220		500	MHz
Passband VSWR		1.3	1.8	(:1)
Stopband VSWR		18		(:1)

Functional Schematic

MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	+25dBm

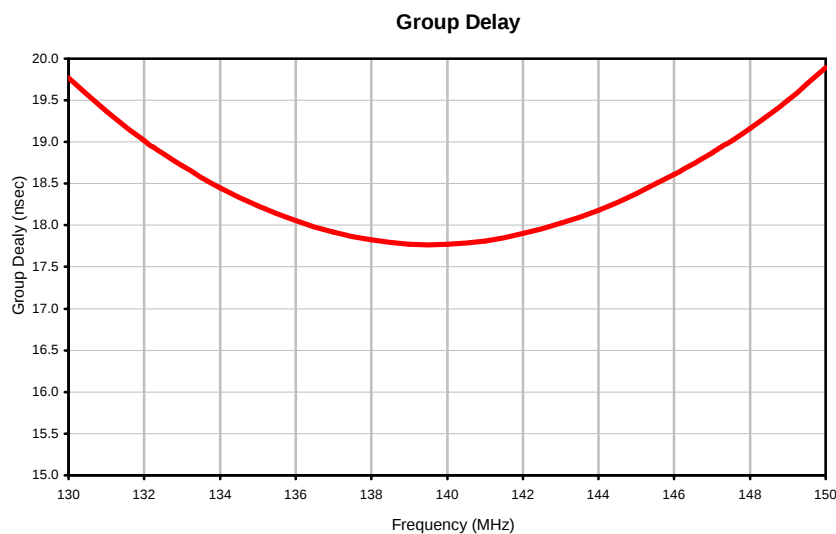
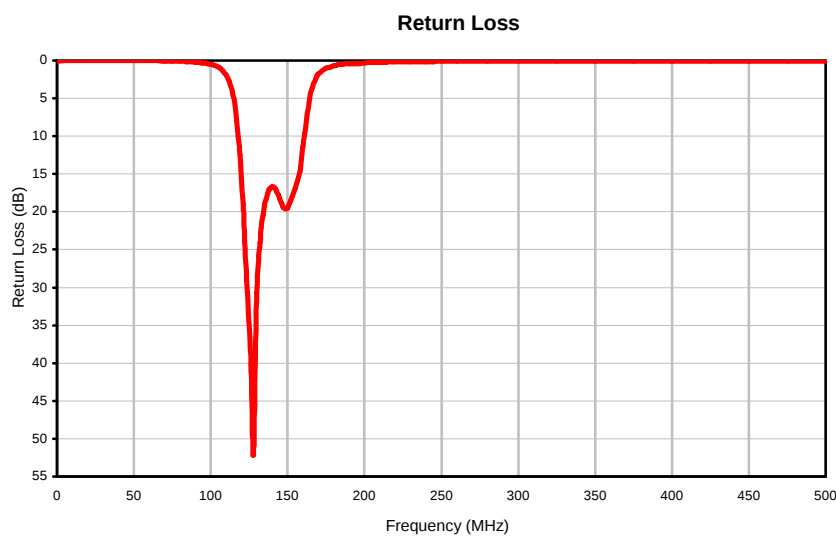


PIN CONNECTIONS	
Input	2
Output	6
Case Ground	1,3,4,5,7,8

Typical Performance Data

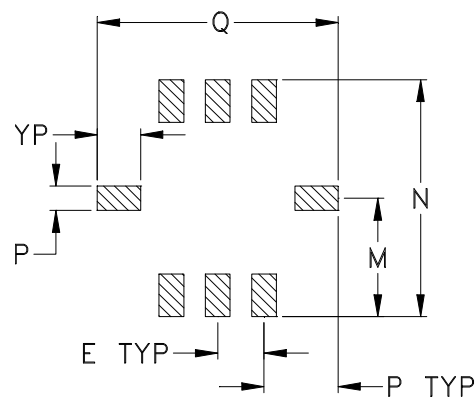
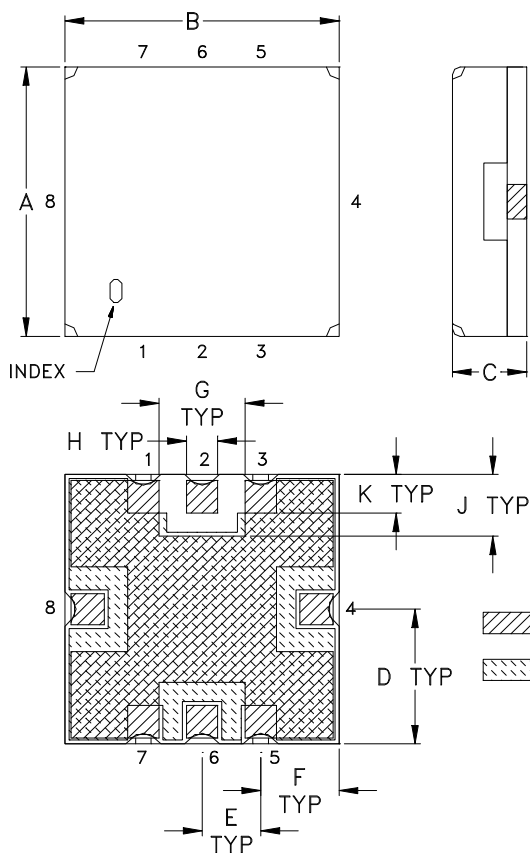
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
0.5	87.48	0.04	130.0	19.77
50.0	46.18	0.02	132.0	19.02
60.0	44.52	0.04	132.2	18.94
100.0	28.90	0.52	133.0	18.72
108.0	16.74	1.36	134.0	18.45
114.0	8.36	4.16	135.0	18.23
118.0	4.63	10.10	136.0	18.06
132.2	2.21	23.56	137.0	17.92
135.0	2.18	19.23	138.0	17.83
140.0	2.20	16.71	139.0	17.77
144.0	2.25	17.73	140.0	17.78
147.2	2.35	19.46	142.0	17.90
160.0	4.51	11.45	143.0	18.02
165.0	8.94	4.32	144.0	18.18
170.0	15.89	1.79	145.0	18.38
180.0	31.02	0.71	146.0	18.61
220.0	45.50	0.20	147.0	18.87
300.0	57.19	0.08	147.2	18.94
400.0	71.85	0.05	148.0	19.16
500.0	86.95	0.05	150.0	19.89

Typical Performance Curves



Outline Dimensions

GP731



CASE #	A	B	C	D	E	F	G	H	J	K	L	M
GP731	.350 (8.89)	.350 (8.89)	.100 (2.54)	.175 (4.45)	.075 (1.91)	.100 (2.54)	.110 (2.79)	.040 (1.02)	.080 (2.03)	.050 (1.27)	.040 (1.02)	.195 (4.95)

CASE #	N	P	Q	R	WT. GRAM
GP731	.390 (9.91)	.120 (3.05)	.390 (9.91)	.070 (1.78)	.4 +0.3 -0.0

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

Notes:

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

For RoHS Case Styles: 3-5 μ inch (.08-.13 microns) Gold over 120-240 μ inch (3.05-6.10 microns) Nickel plate.
For RoHS-5 Case Styles: Tin-Lead plate.



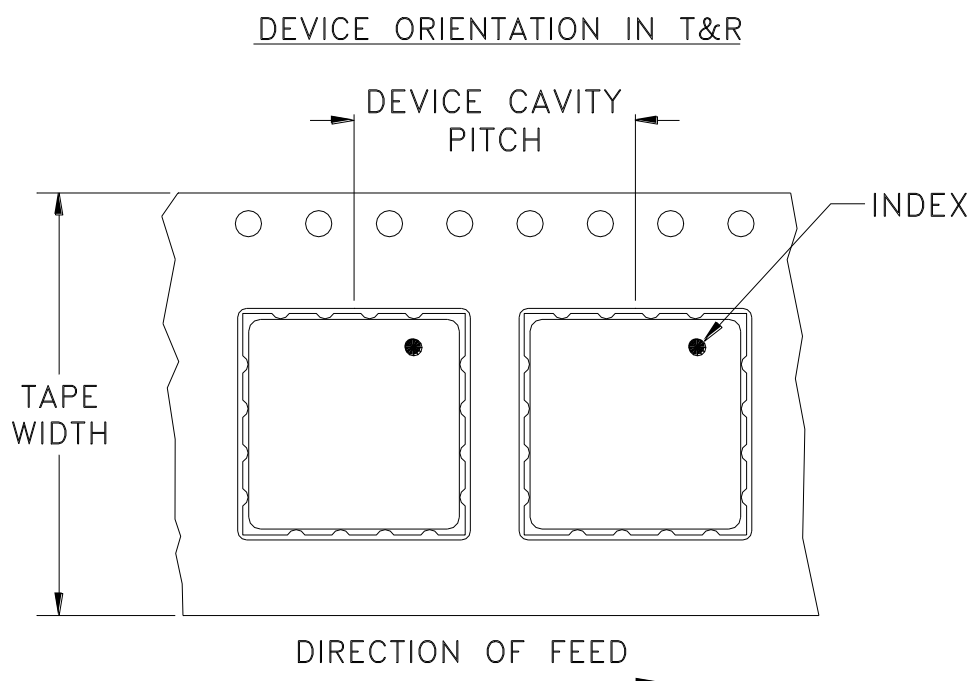
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RF/IF MICROWAVE COMPONENTS

Tape & Reel Packaging TR-F78



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel see note
16	12	7	10
			20
			50
			100
			200
		13	500, 1000

Note: Please consult individual model data sheet to determine device per reel availability.

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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