

Engineering Development Model

Band Pass Filter

BPF-EDU1918

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.



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

HU1186

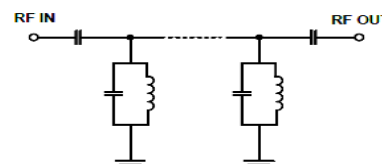
ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 3 dB)	2.9		3.1	MHz
Centre frequency		3		MHz
Low Band (Loss > 20 dB)	DC	2.4		MHz
High Band (Loss > 20 dB)		3.7	2000	MHz
Passband VSWR		1.4		(: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	0.2 W



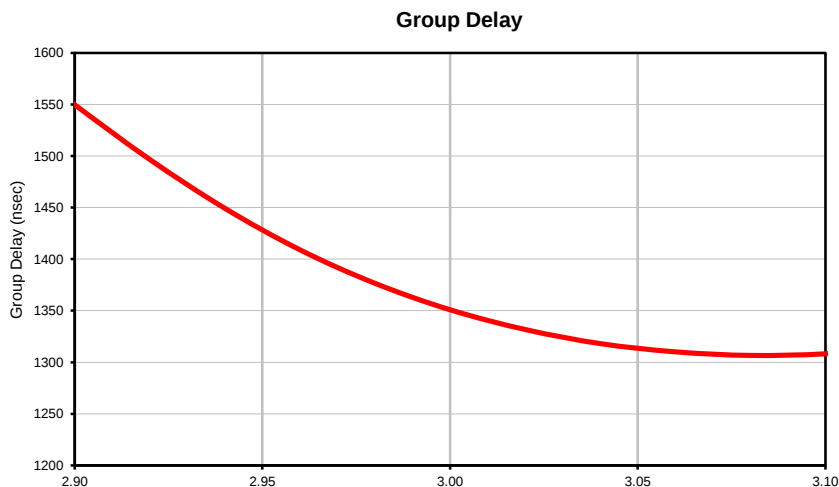
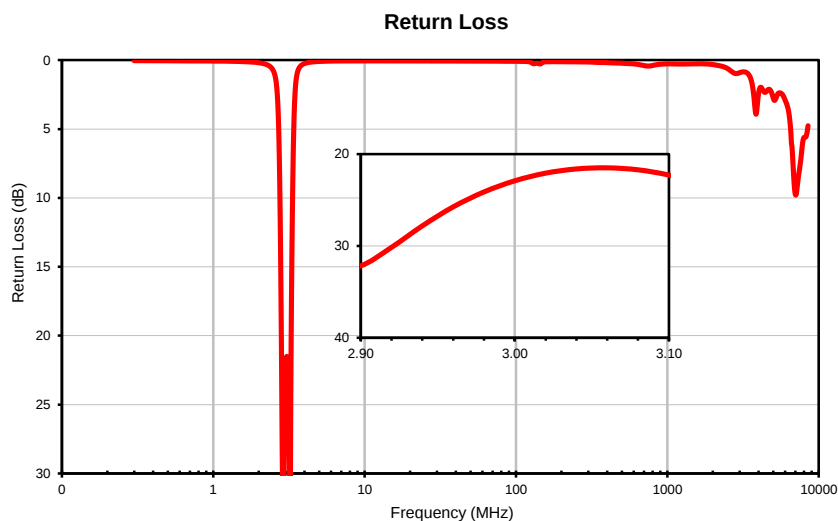
PIN CONNECTIONS

Input	2
Output	13
Not Connected	6,9
Ground	1,3,4,5,7,8,10,11,12,14

Typical Performance Data

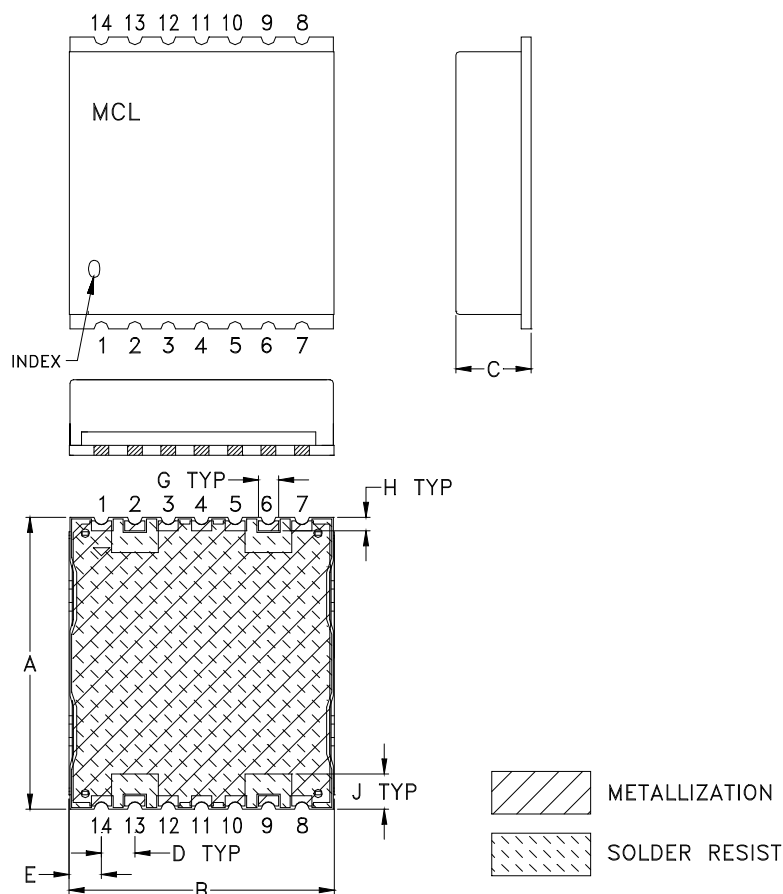
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
1.0	84.79	0.07	2.90	1549.63
1.6	70.03	0.11	2.92	1496.60
1.8	60.04	0.14	2.94	1449.25
2.0	50.90	0.19	2.96	1409.05
2.4	29.02	0.51	2.98	1376.55
2.5	20.61	0.89	3.00	1350.94
2.8	3.40	10.31	3.02	1331.80
2.9	1.85	32.17	3.04	1318.13
3.0	1.76	22.91	3.06	1310.14
3.1	1.79	22.29	3.08	1306.68
3.3	3.11	12.59	3.10	1308.23
3.6	20.50	0.79		
3.8	30.69	0.42		
4.1	54.91	0.21		
4.2	60.22	0.20		
5.0	49.64	0.10		
30.0	74.12	0.06		
80.0	61.97	0.08		
130.0	38.94	0.26		
140.0	55.98	0.24		
145.0	46.17	0.28		
175.0	52.95	0.11		
750.0	42.62	0.43		
2000.0	32.55	0.32		

Typical Performance Curves

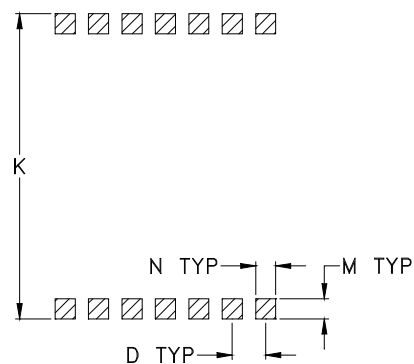


Outline Dimensions

HU1186



PCB Land Pattern



Suggested Layout,
Tolerance to be within ± 0.002

CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N	P	WT, GRAM
HU1186	.870 (22.10)	.800 (20.32)	.25 (6.35)	.100 (2.54)	.097 (2.46)	- -	.060 (1.52)	.040 (1.02)	.105 (2.67)	.910 (23.11)	- -	.060 (1.52)	.060 (1.52)	- -	2.85

Dimensions are in inches (mm). Tolerances: 2PL. +/- .03; 3PL. +/- .015

Notes:

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

For RoHS Case Styles: 2-5 μ inch (.05-.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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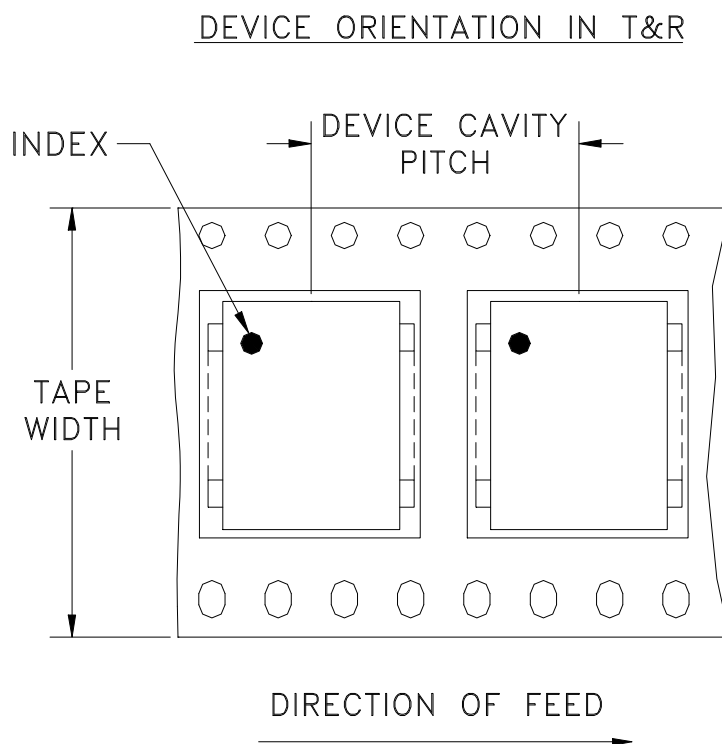
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RF/IF MICROWAVE COMPONENTS

Tape & Reel Packaging TR-F21



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel
32	32	13	200

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