

Band Pass Filter

BPF-EDU2116

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.

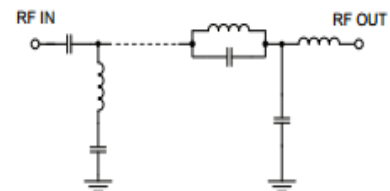
HU1186

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 2.5 dB)	100		1000	MHz
Centre frequency		550		MHz
Low Band (Loss > 20 dB)	DC	83		MHz
High Band (Loss > 20 dB)		1155	2300	MHz
Passband VSWR		1.5		(: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	1W



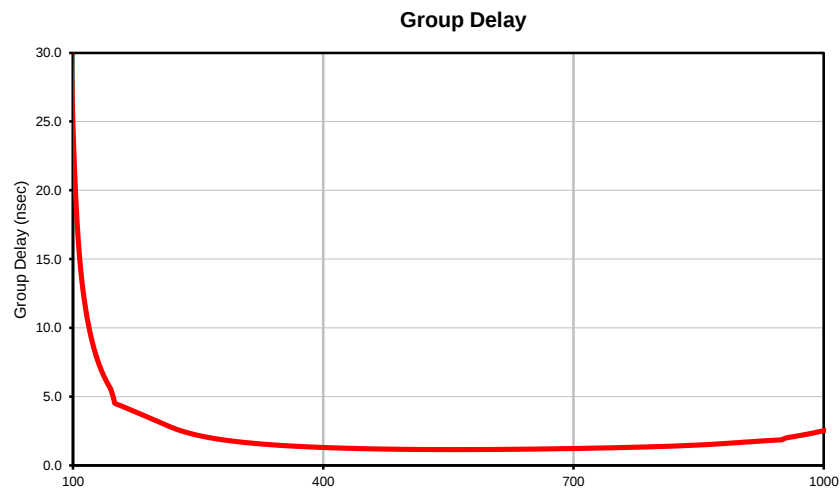
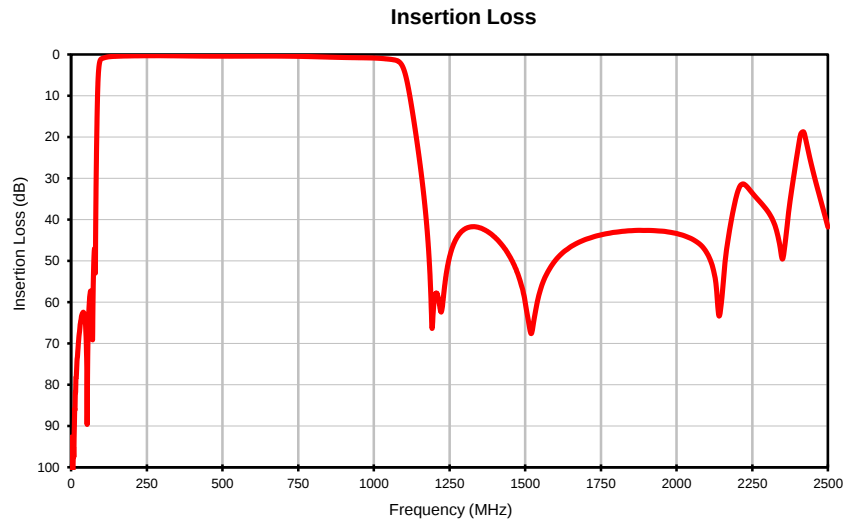
PIN CONNECTIONS

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

Typical Performance Data

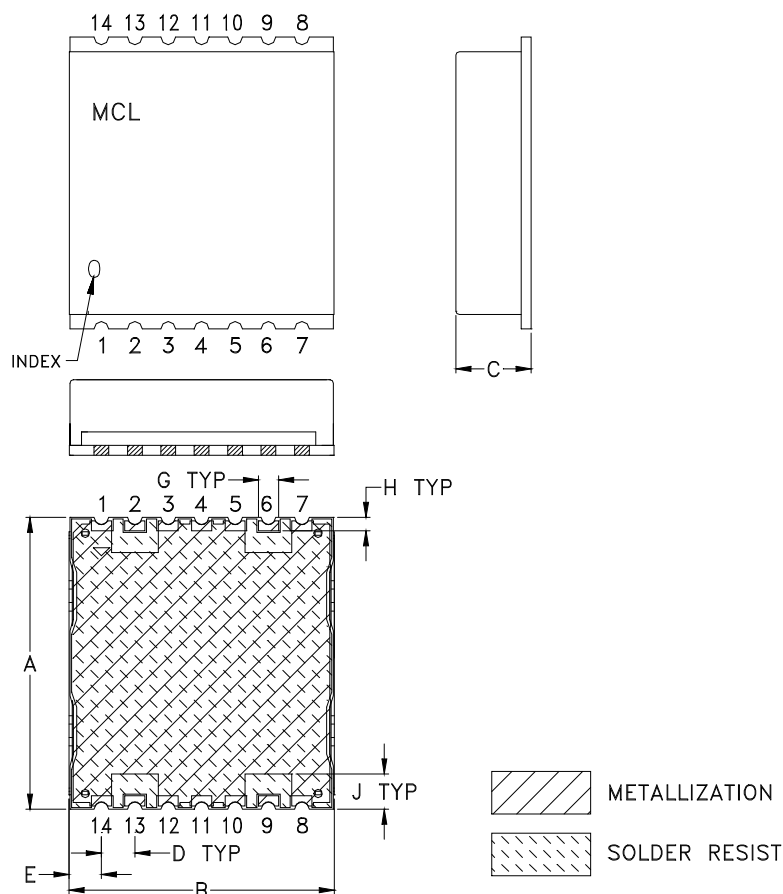
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
1	98.38	0.05	100	24.37
53	89.61	0.14	110	13.71
60	60.48	0.19	130	7.54
82	36.05	1.30	150	4.52
83	29.39	1.57	170	4.01
84.5	21.33	2.16	200	3.24
86	14.78	3.02	250	2.19
88	8.45	4.38	270	1.95
90	4.91	5.73	300	1.71
92	3.04	7.77	350	1.45
100	1.06	22.42	450	1.22
550	0.41	18.44	550	1.15
1000	0.86	18.03	600	1.16
1096	3.07	9.02	650	1.19
1109	6.30	4.25	700	1.23
1124	12.25	2.15	800	1.37
1141	20.37	1.43	850	1.49
1159	30.25	1.17	900	1.67
1256	47.52	0.79	910	1.71
1530	63.85	0.71	950	1.87
1770	43.39	0.73	960	2.06
2100	48.06	1.06	990	2.39
2140	63.30	1.68	995	2.46
2300	37.87	1.39	1000	2.53

Typical Performance Curves

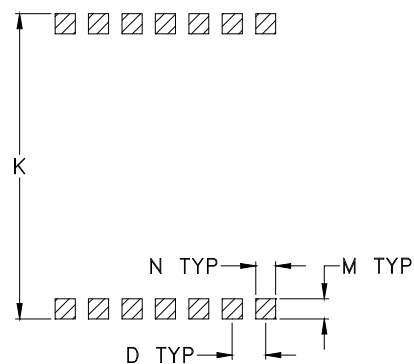


Outline Dimensions

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:

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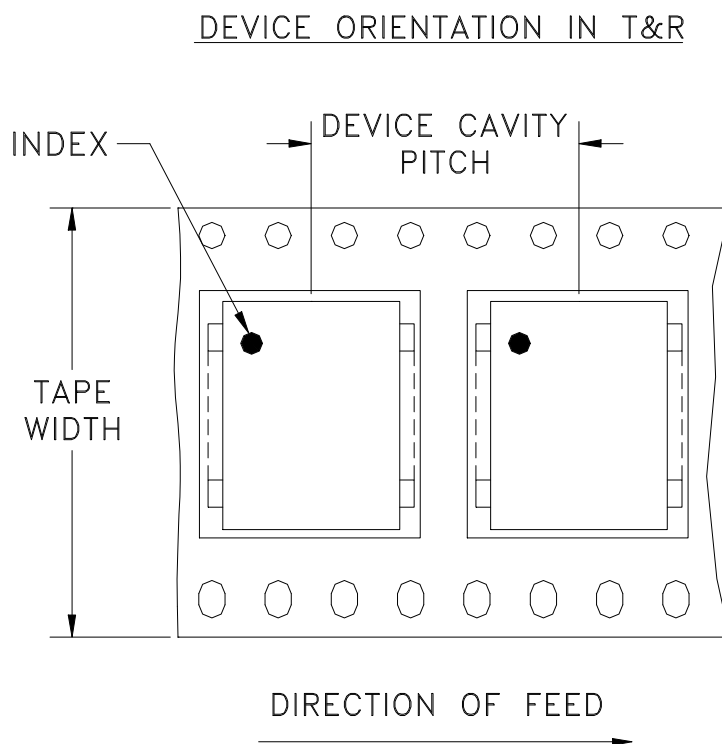
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