

Band Pass Filter

BPF-EDU2115

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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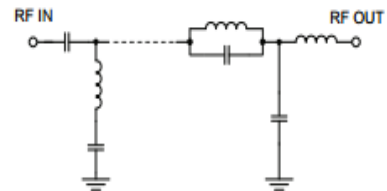
HU1186

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 2.5 dB)	950		1450	MHz
Centre frequency		1200		MHz
Low Band (Loss > 20 dB)	DC	825		MHz
High Band (Loss > 20 dB)		1595	2560	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	2W



PIN CONNECTIONS

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

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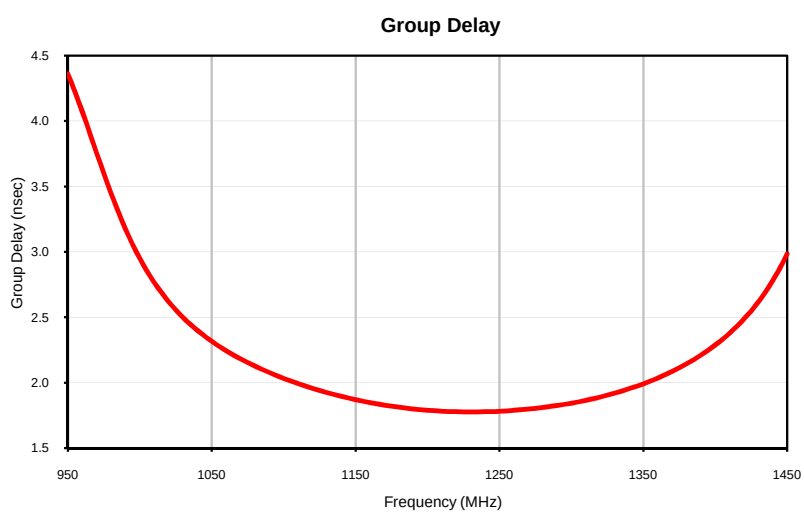
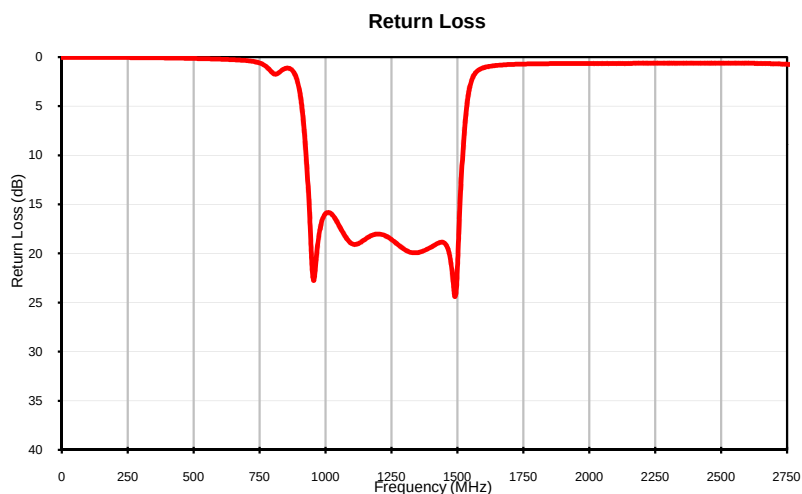
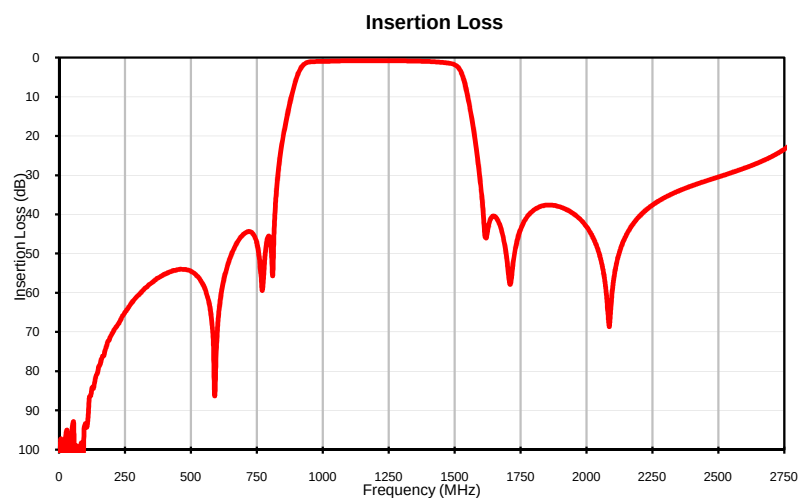
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
1	106.17	0.05	950	4.36
90	106.74	0.04	960	4.07
480	54.03	0.13	990	3.18
585	72.72	0.20	1025	2.56
725	44.43	0.44	1075	2.15
785	48.15	1.22	1100	2.03
825	33.33	1.54	1150	1.87
845	22.10	1.18	1200	1.79
900	5.36	3.26	1230	1.78
950	1.14	21.87	1270	1.80
1000	1.01	15.93	1300	1.84
1105	0.84	19.05	1310	1.87
1200	0.85	18.01	1330	1.92
1350	0.91	19.90	1350	1.99
1450	1.24	18.91	1360	2.04
1520	3.16	9.94	1370	2.09
1570	17.76	1.56	1390	2.21
1595	30.21	1.12	1395	2.25
1620	46.03	0.96	1400	2.29
1665	41.75	0.82	1410	2.38
1725	50.90	0.73	1420	2.49
1915	38.50	0.66	1430	2.62
2000	43.17	0.66	1440	2.78
2560	29.14	0.63	1450	2.99

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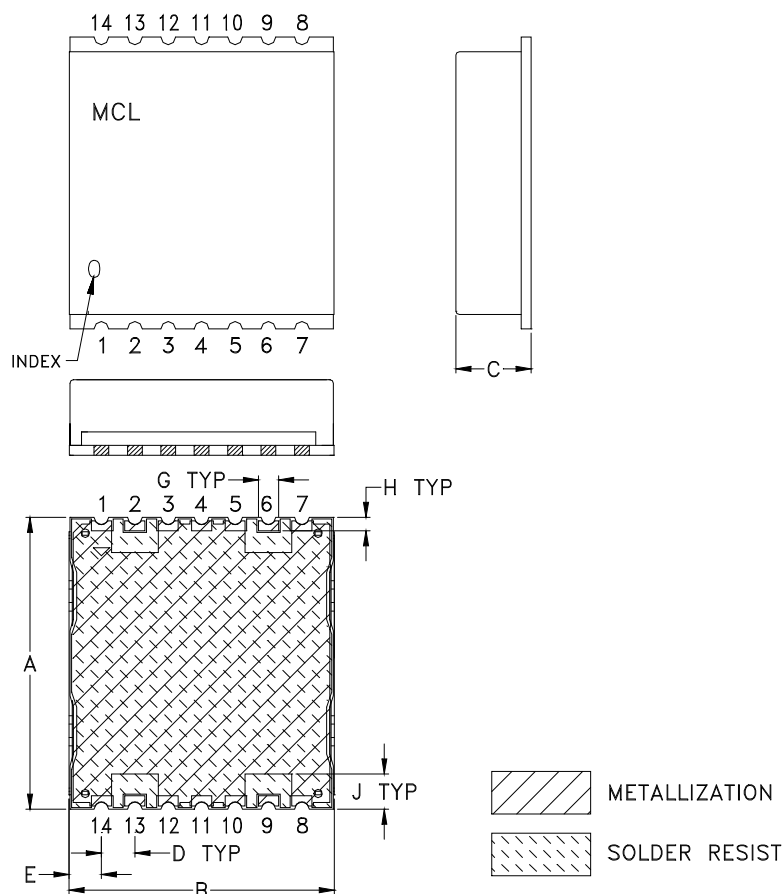
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Typical Performance Curves

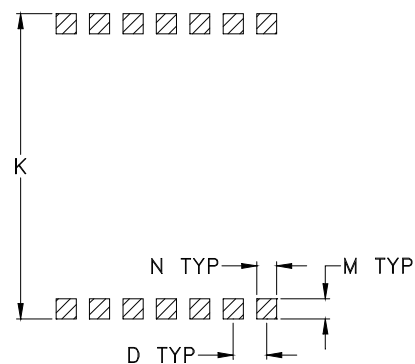


Outline Dimensions

HU1186



PCB Land Pattern



Suggested Layout,
Tolerance to be within $\pm .002$

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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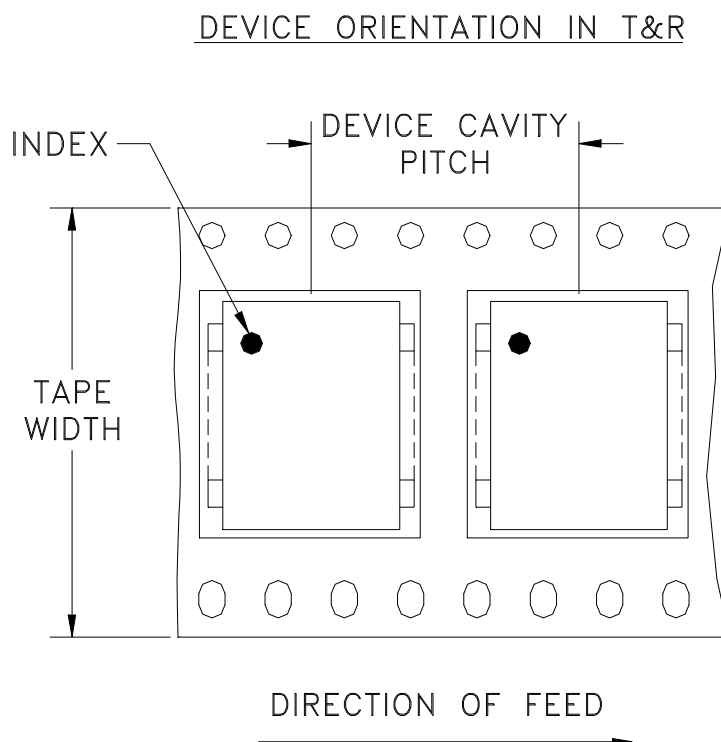
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