

Band Pass Filter

BPF-EDU2051

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

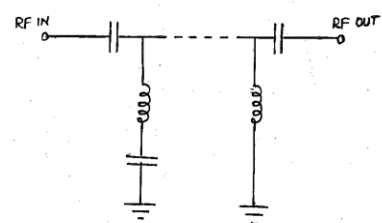
ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 3 dB)	2200		3500	MHz
Centre frequency		2850		MHz
Low Band (Loss > 20 dB)	DC	1640		MHz
High Band (Loss > 20 dB)		4000	7000	MHz
Passband VSWR		2		(:1)
Stopband VSWR		20		(:1)

Functional Schematic

MAXIMUM RATINGS

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1 W



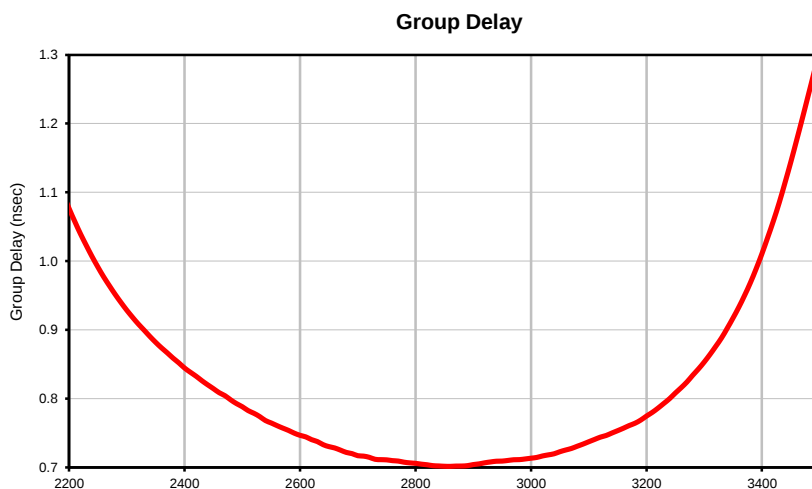
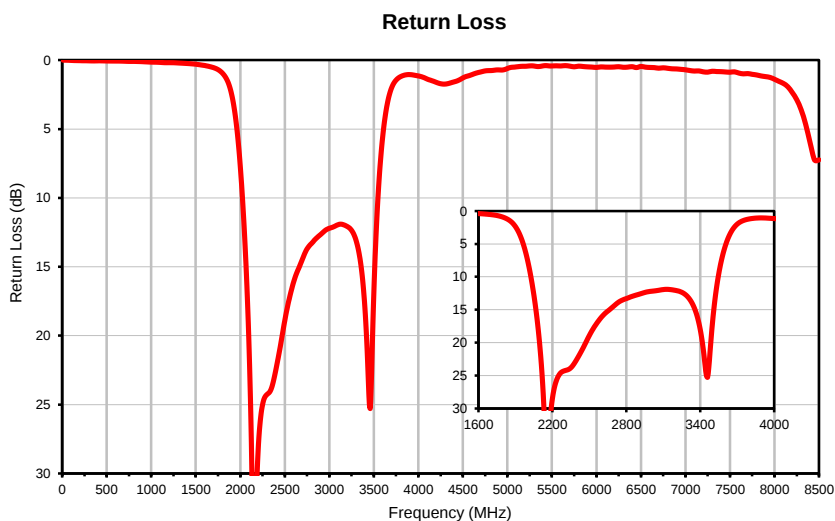
PIN CONNECTIONS

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

Typical Performance Data

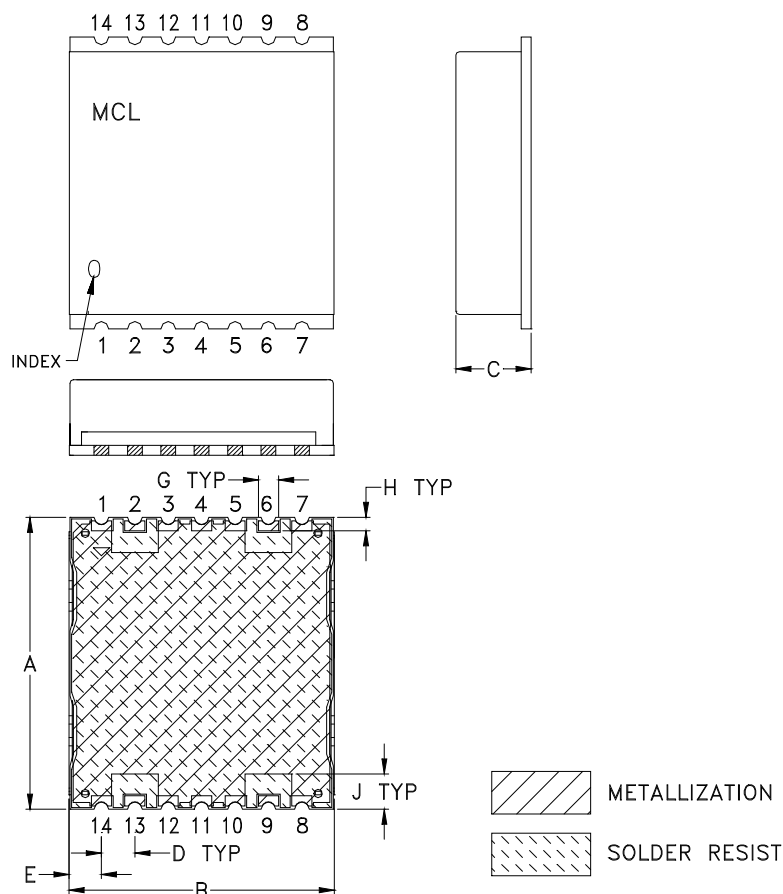
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
10.0	95.98	0.00	2200	1.08
100.0	96.24	0.02	2300	0.93
340.0	77.40	0.06	2350	0.88
550.0	64.99	0.07	2400	0.84
750.0	58.15	0.09	2500	0.79
1200.0	60.96	0.19	2550	0.76
1450.0	44.32	0.27	2600	0.75
1500.0	42.61	0.30	2650	0.73
1640.0	40.74	0.44	2700	0.72
1690.0	29.42	0.53	2750	0.71
1750.0	20.91	0.69	2800	0.71
1970.0	3.48	5.46	2850	0.70
1990.0	2.75	6.86	2900	0.70
2200.0	0.83	28.47	2950	0.71
2850.0	0.90	12.96	3000	0.71
3500.0	1.42	16.97	3050	0.72
3550.0	2.15	9.63	3100	0.74
3600.0	3.68	5.55	3150	0.75
3850.0	20.68	1.08	3200	0.77
3940.0	30.00	1.08	3250	0.81
4180.0	37.09	1.56	3300	0.85
5480.0	47.21	0.43	3350	0.92
6000.0	52.12	0.53	3400	1.01
7000.0	37.45	0.70	3500	1.31

Typical Performance Curves

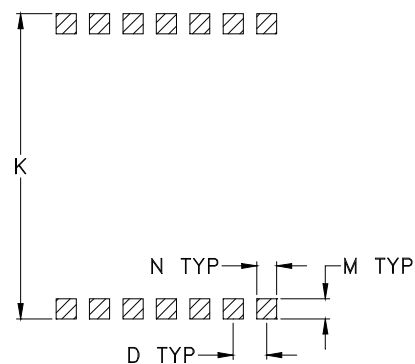


Outline Dimensions

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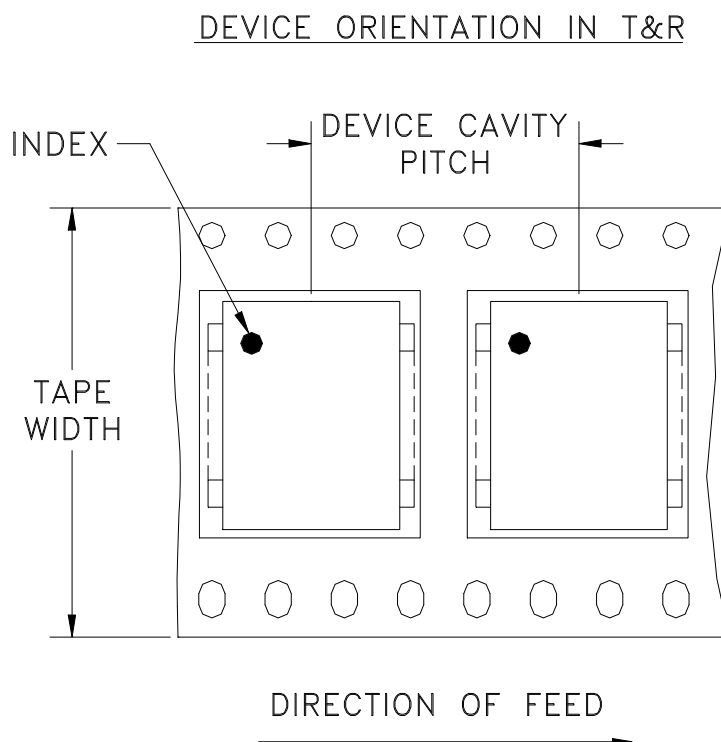
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Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel
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