

Engineering Development Model

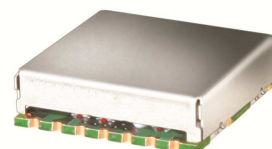
Band Pass Filter

BPF-EDU2114

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.

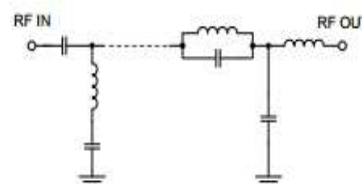
HU1186

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 2.5 dB)	20		1000	MHz
Centre frequency		510		MHz
Low Band (Loss > 20 dB)	DC	17		MHz
High Band (Loss > 20 dB)		1130	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



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IF/RF MICROWAVE COMPONENTS

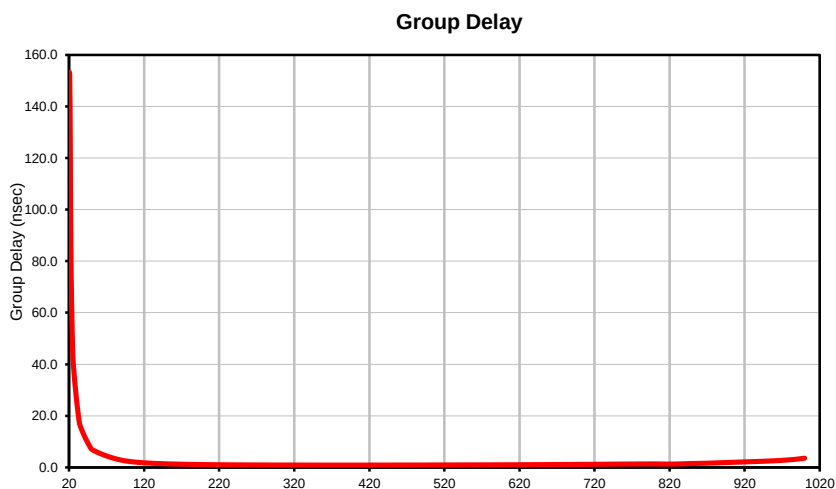
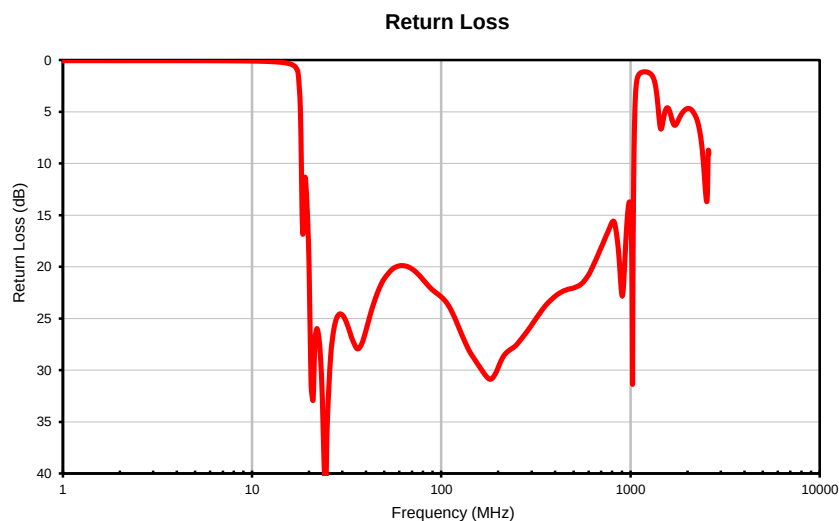
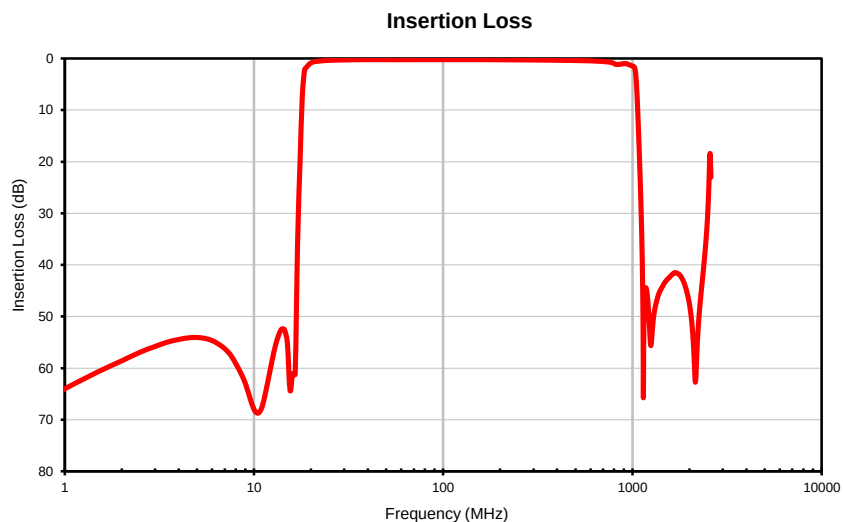


REV. X1
BPF-EDU2114
URJ
151127
Page 1 of 1

Typical Performance Data

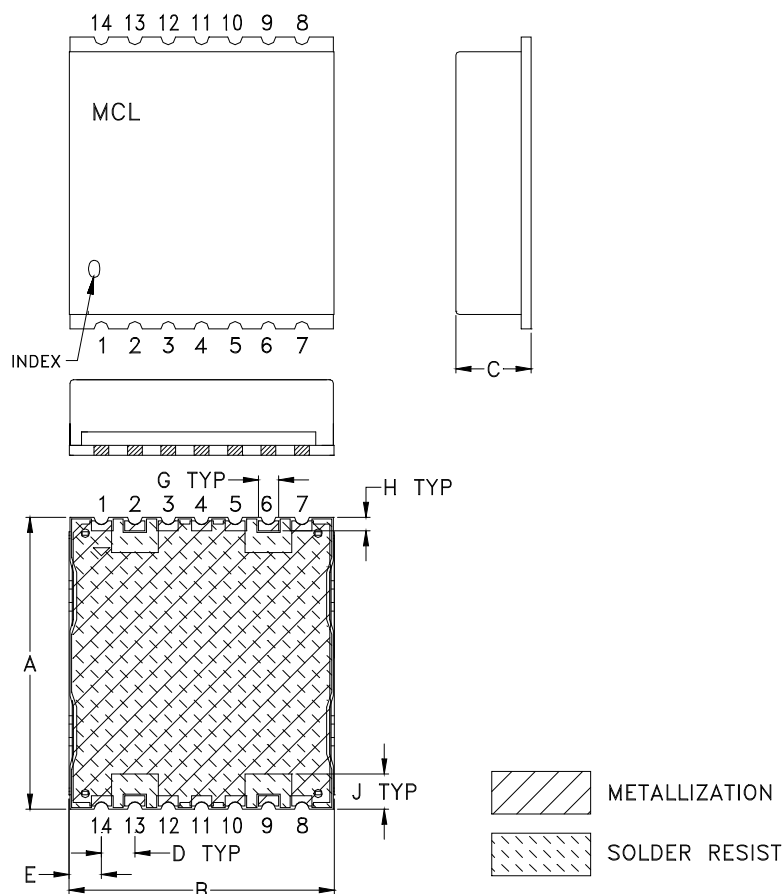
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
1	63.99	0.05	20	137.77
17	35.52	0.70	25	43.02
17.5	20.20	1.26	30	25.94
18	7.31	4.77	40	12.42
20	0.86	19.78	55	6.26
75	0.23	20.67	75	3.97
215	0.26	28.55	100	2.34
415	0.35	22.63	150	1.39
510	0.40	21.98	200	1.11
883	1.05	20.91	255	0.99
961	1.20	15.34	400	0.92
1000	1.46	14.36	510	0.96
1036	2.45	14.22	650	1.10
1045	3.79	8.24	750	1.29
1056	6.61	4.53	800	1.36
1072	12.29	2.41	825	1.31
1092	20.47	1.61	860	1.57
1114	30.97	1.33	900	1.95
1130	41.95	1.23	910	2.05
1450	44.00	6.67	925	2.20
1715	41.57	6.31	950	2.46
2015	48.28	4.68	975	2.86
2265	48.48	6.00	990	3.23
2300	45.83	6.51	1000	3.61

Typical Performance Curves

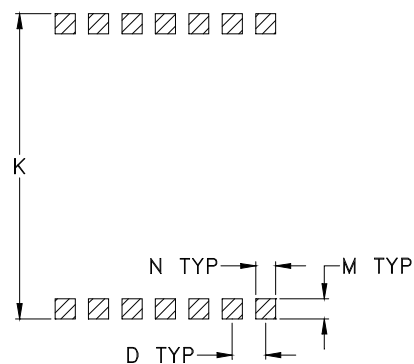


Outline Dimensions

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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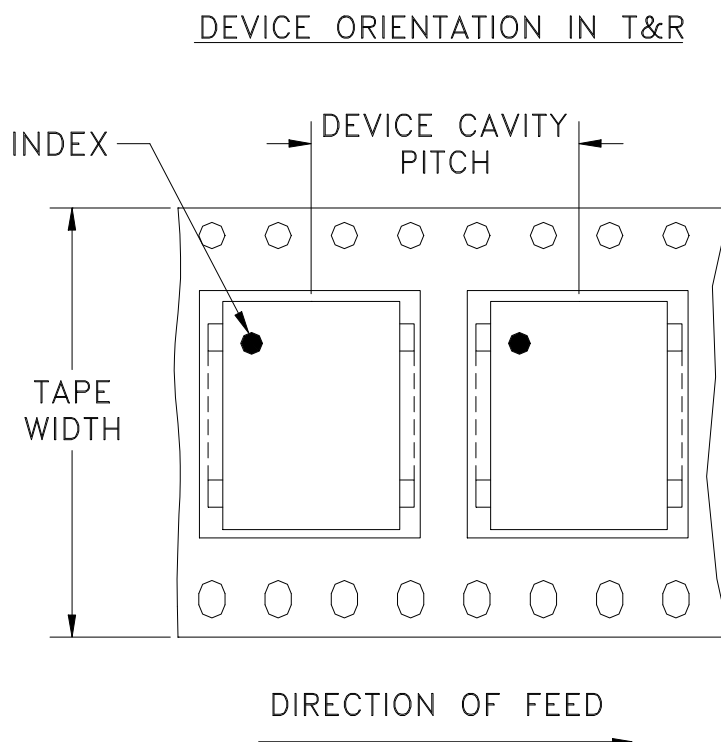
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RF/IF MICROWAVE COMPONENTS

Tape & Reel Packaging TR-F21



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

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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