

Band Pass Filter

Surface Mount

BPF-EDU2728/1+

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.



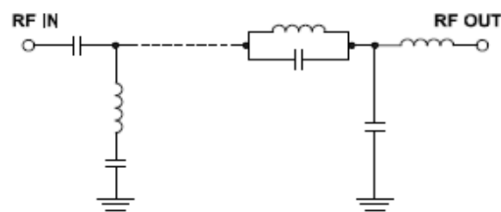
Please click "Back", and then click "Contact Us" for Applications support.

HU1186

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 2.5 dB)	470	-	616	MHz
Centre frequency	-	543	-	MHz
Low Band (Loss > 40 dB)	0.3	280	-	MHz
Low Band (Loss > 20 dB)	280	390	-	MHz
High Band (Loss > 20 dB)	-	710	3000	MHz
Passband VSWR	-	1.5	1.9	(: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	100 mW



PIN CONNECTIONS	
Input	2
Output	9
NC	6,13
Ground	1,3,4,5,7,8,10,11,12,14

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS

REV.OR
BPF-EDU2728/1+
URJ
170907
Page 1 of 1

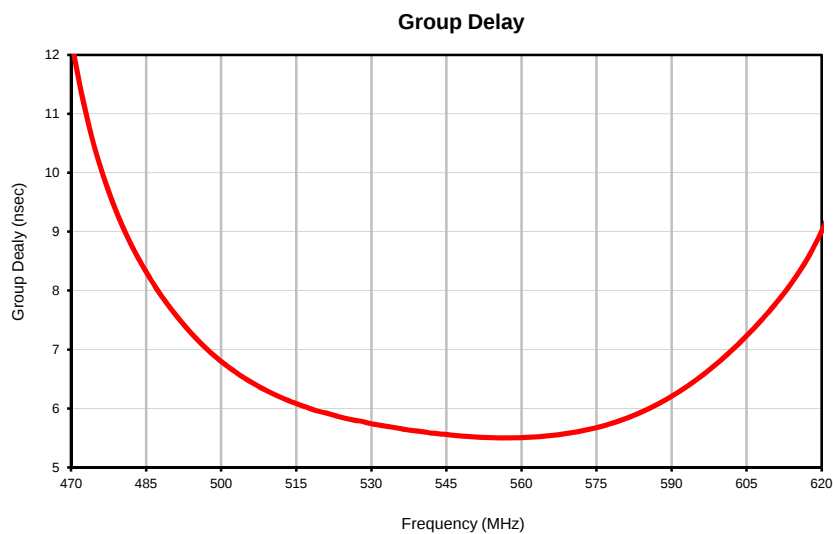
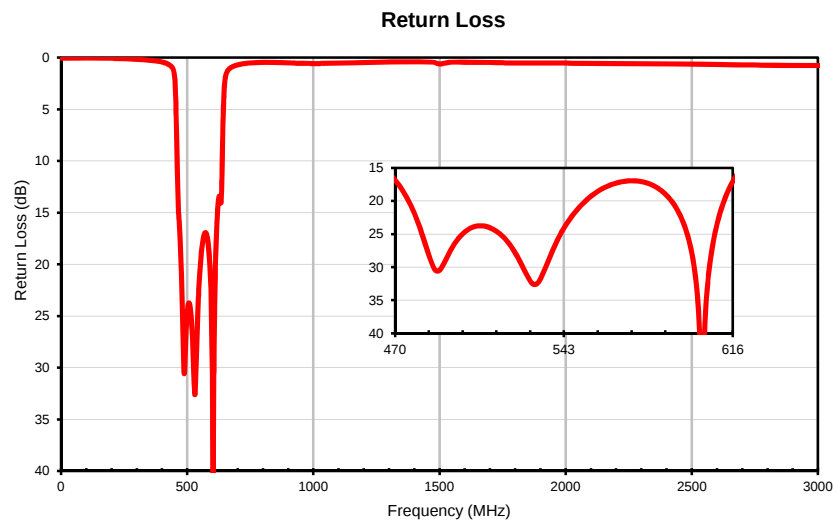
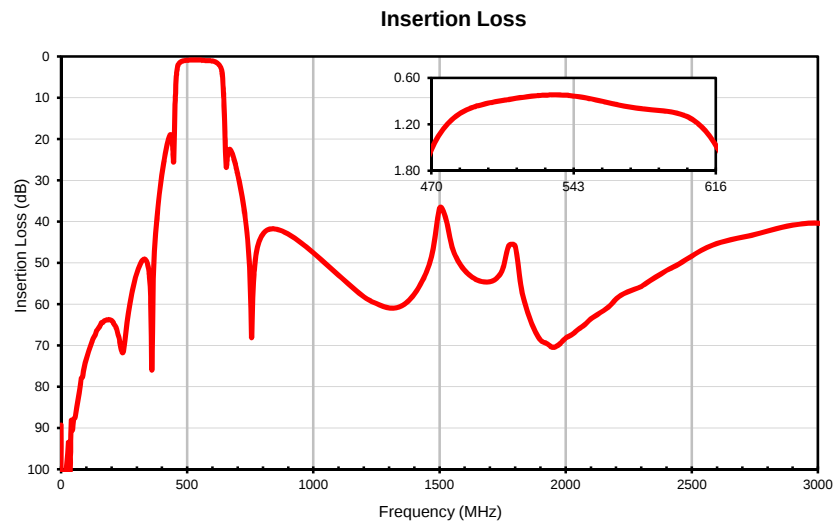
Band Pass Filter

BPF-EDU2728/1+

Typical Performance Data

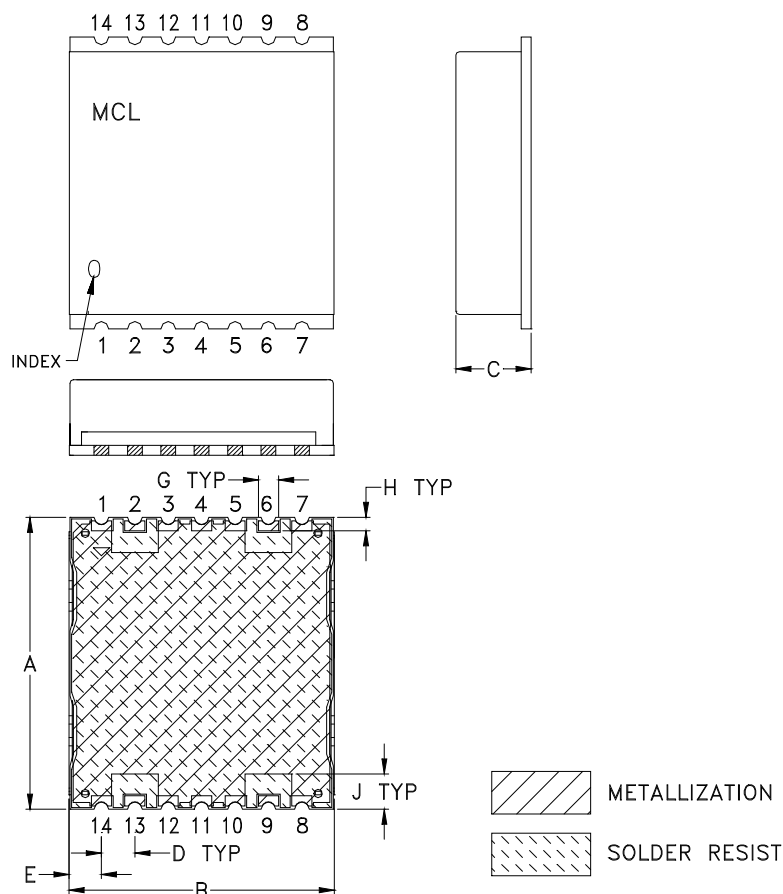
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
0.3	89.27	0.05	470	12.28
1.0	103.90	0.05	471	11.81
10.0	103.29	0.05	472	11.38
100.0	73.25	0.04	473	11.00
200.0	63.93	0.06	475	10.34
280.0	57.46	0.14	480	9.14
300.0	52.55	0.16	485	8.32
390.0	33.08	0.37	490	7.69
395.0	30.65	0.39	495	7.19
400.0	28.44	0.42	500	6.80
410.0	24.56	0.49	505	6.50
422.0	20.84	0.60	510	6.26
450.0	16.11	1.85	515	6.08
454.0	8.15	3.62	520	5.94
460.0	3.04	9.82	526	5.81
462.0	2.43	12.03	530	5.74
470.0	1.53	16.83	534	5.68
543.0	0.83	24.09	538	5.63
616.0	1.47	17.02	543	5.58
620.0	1.65	14.96	546	5.55
636.0	3.19	13.21	550	5.52
645.0	10.39	3.81	554	5.50
650.0	19.32	2.12	558	5.50
655.0	26.89	1.53	562	5.52
675.0	22.97	0.94	566	5.54
700.0	28.52	0.70	570	5.59
705.0	29.97	0.67	574	5.66
710.0	31.52	0.65	578	5.75
750.0	54.64	0.51	582	5.87
800.0	42.97	0.47	586	6.02
1000.0	47.55	0.57	590	6.20
1250.0	59.84	0.43	594	6.43
1500.0	36.77	0.61	598	6.69
1750.0	51.60	0.49	602	6.98
2000.0	68.22	0.53	606	7.32
2250.0	56.85	0.58	610	7.70
2500.0	48.35	0.63	612	7.91
2750.0	43.10	0.71	613	8.01
2900.0	40.85	0.75	615	8.26
3000.0	40.38	0.77	616	8.38

Typical Performance Curves

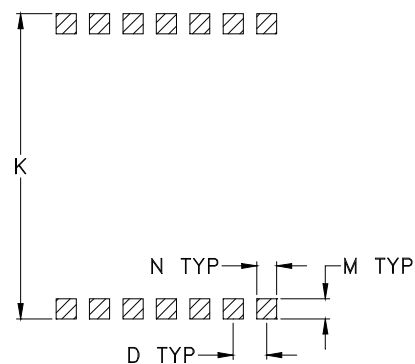


Outline Dimensions

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.

Mini-Circuits®
ISO 9001 ISO 14001 CERTIFIED

ALL NEW
minicircuits.com

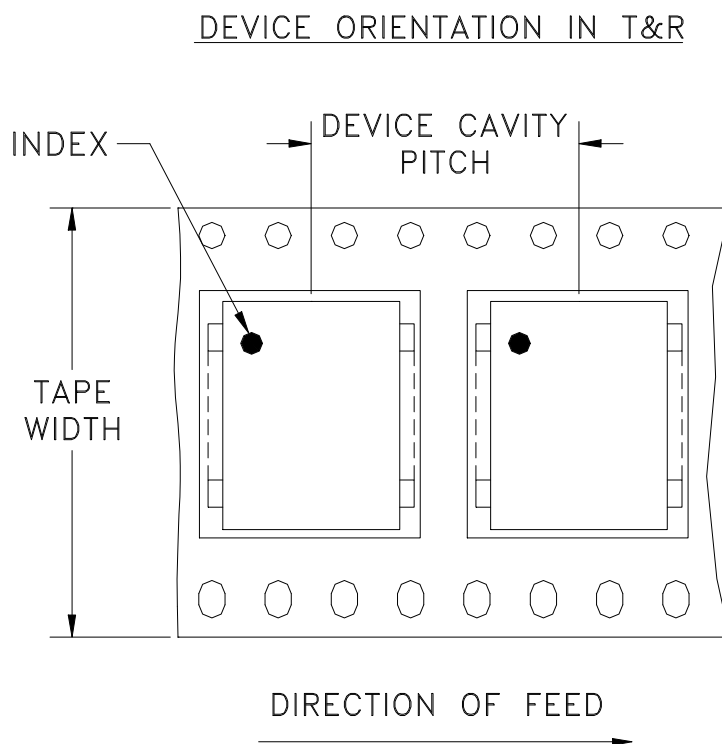
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

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.

Go to: www.minicircuits.com/pages/pdfs/tape.pdf



INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified