

Band Pass Filter

SXBP-EDU2581

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.

HF1139

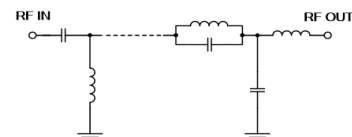
ELECTRICAL SPECIFICATIONS 75Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 2 dB)	5		65	MHz
Centre frequency		35		MHz
Low Band (Loss > 30 dB)	0.3	1		MHz
High Band (Loss > 20 dB)		85	89	MHz
High Band (Loss > 40 dB)		89	300	MHz
High Band (Loss > 30 dB)		300	3000	MHz
Passband VSWR		1.3	1.67	(: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	0.5W



PIN CONNECTIONS

Input	1
Output	8
Ground	2,3,4,5,6,7

Band Pass Filter

SXBP-EDU2581

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
0.30	86.94	0.02	5	75.48
0.60	59.37	0.03	9	27.31
1.00	38.92	0.08	12	18.93
1.25	30.61	0.15	15	16.03
2.15	22.11	0.69	18	14.09
2.60	3.32	4.45	21	13.05
2.65	2.73	5.28	24	12.49
5.00	0.48	20.08	26	12.27
23.00	0.44	25.14	29	12.13
35.00	0.49	26.90	32	12.12
65.00	1.08	17.56	35	12.22
71.50	2.14	13.10	37	12.30
73.00	3.55	7.32	39	12.46
80.50	21.16	1.31	43	12.89
84.00	31.26	1.12	48	13.80
85.00	34.57	1.08	52	15.03
89.00	54.14	1.00	55	16.34
300.00	69.48	0.75	58	17.99
500.00	73.81	1.90	59	18.62
750.00	69.96	6.46	60	19.26
1000.00	76.70	1.50	61	19.97
1500.00	62.25	1.65	63	21.59
2000.00	52.70	4.48	64	22.59
3000.00	45.72	3.36	65	23.82



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

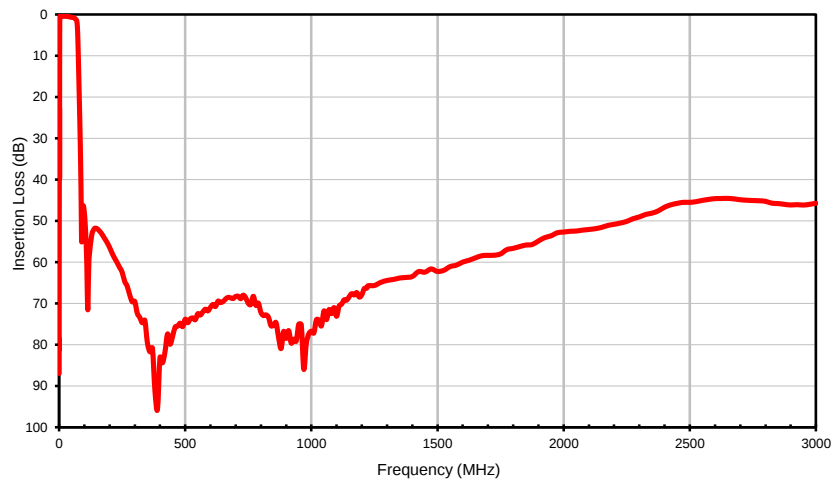
RF/IF MICROWAVE COMPONENTS



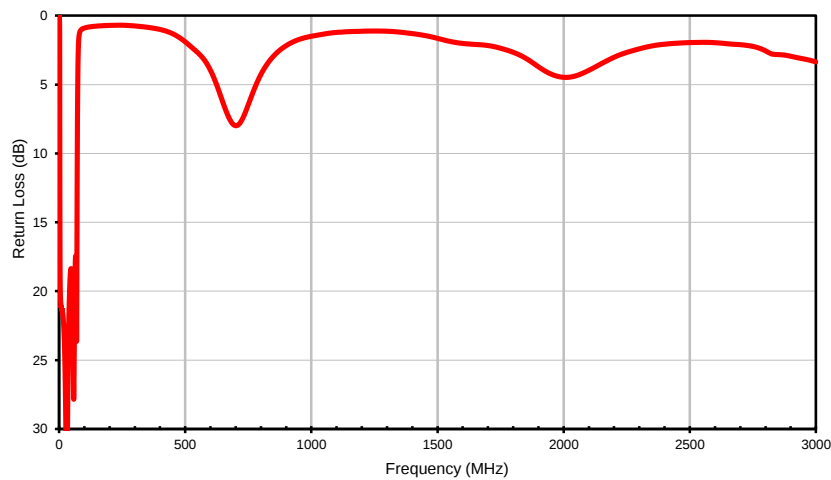
REV. X1
SXBP-EDU2581
URJ
170121
Page 1 of 1

Typical Performance Curves

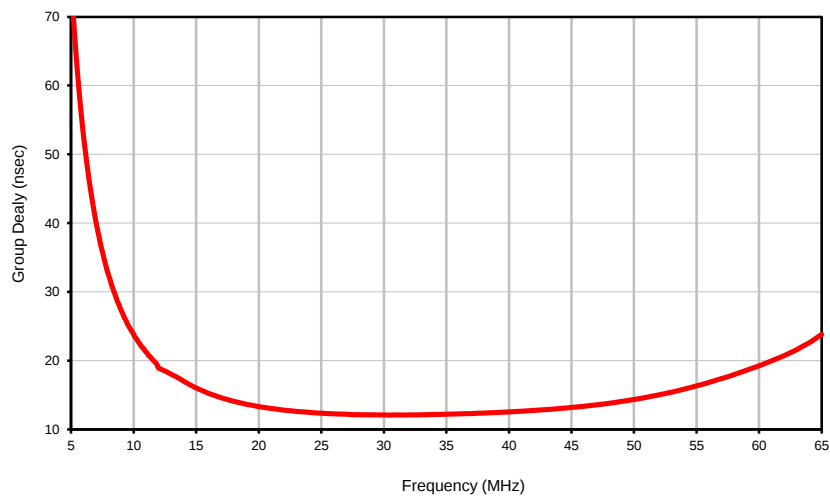
Insertion Loss



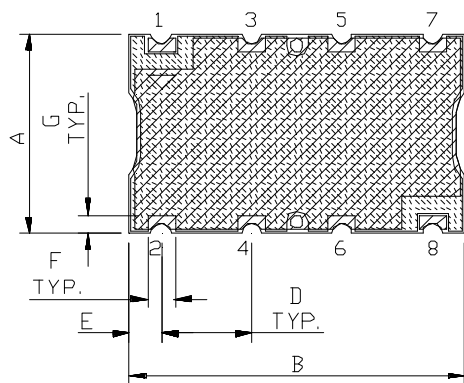
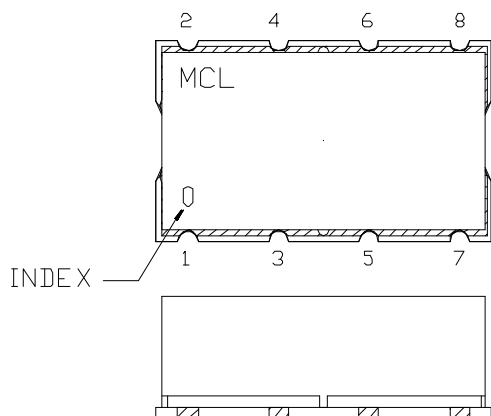
Return Loss



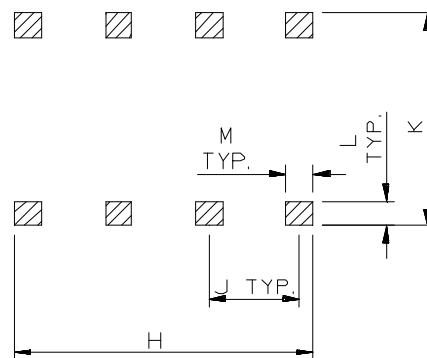
Group Delay



Outline Dimensions



PCB Land Pattern



CASE #	A	B	C	D	E	F	G	H	J	K	L	M	WT. GRAMS
HF1139	.44 (11.18)	.74 (18.80)	.27 (6.86)	.200 (5.08)	.07 (1.78)	.060 (1.52)	.040 (1.02)	.660 (16.76)	.200 (5.08)	.470 (11.94)	.055 (1.40)	.060 (1.52)	3.0

Dimensions are in inches (mm). Tolerances: 2 Pl. ± 0.015 "; 3 Pl. ± 0.01 "

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.



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

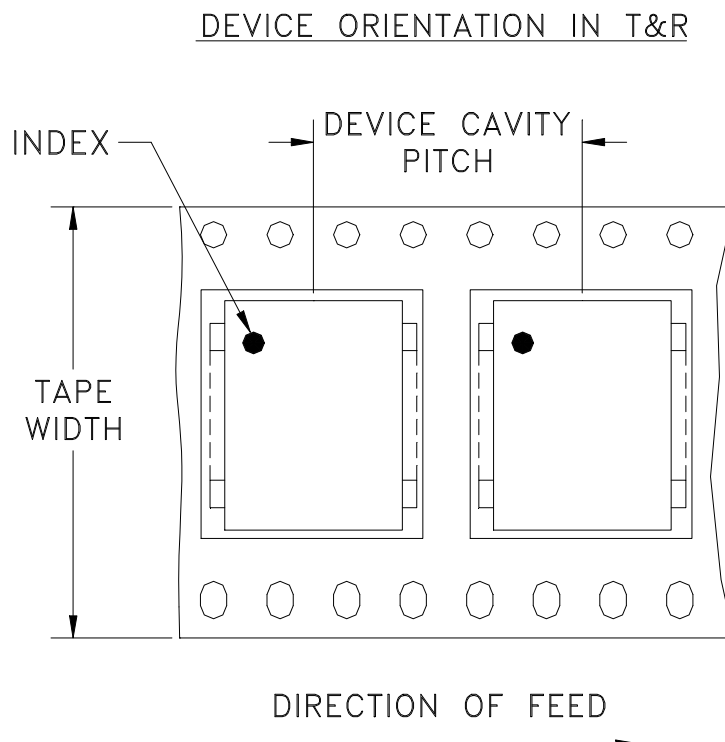


The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS



Tape & Reel Packaging TR-F5



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel
32	16	13	500

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



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

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

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