

Engineering Development Model

Low Pass Filter With DC Connectorised

LPF-EDU1137

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.



CASE STYLE : CP641 (without heat sink & without DC/GND pins)

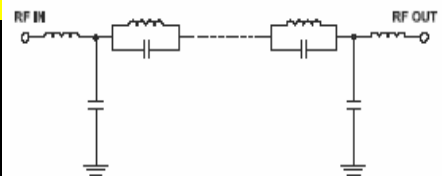
ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 1.5 dB)	DC		2	MHz
Stopband (Loss > 20 dB)	2.9		3.2	MHz
(Loss > 40 dB)	3.2		400	MHz
Passband VSWR		1.2	1.6	(:1)
Stopband VSWR		20		(:1)

MAXIMUM RATINGS

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1 W
Max current through the filter	5A

Functional Schematic



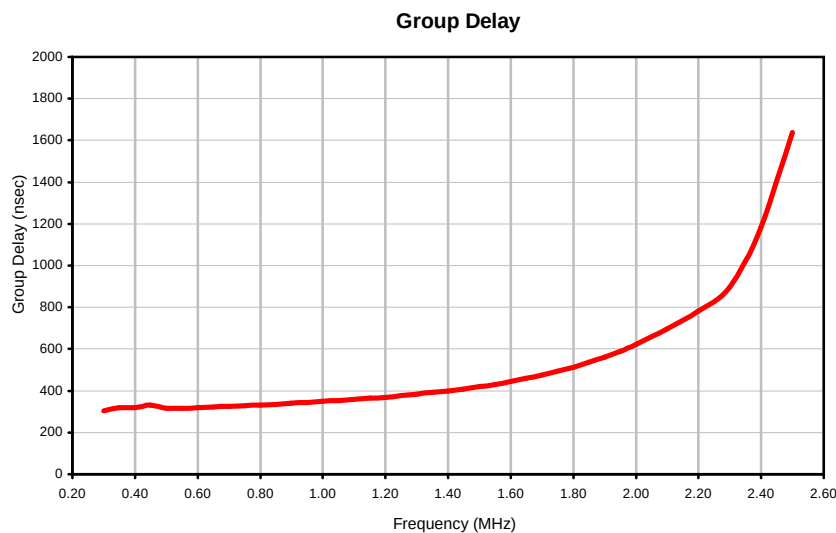
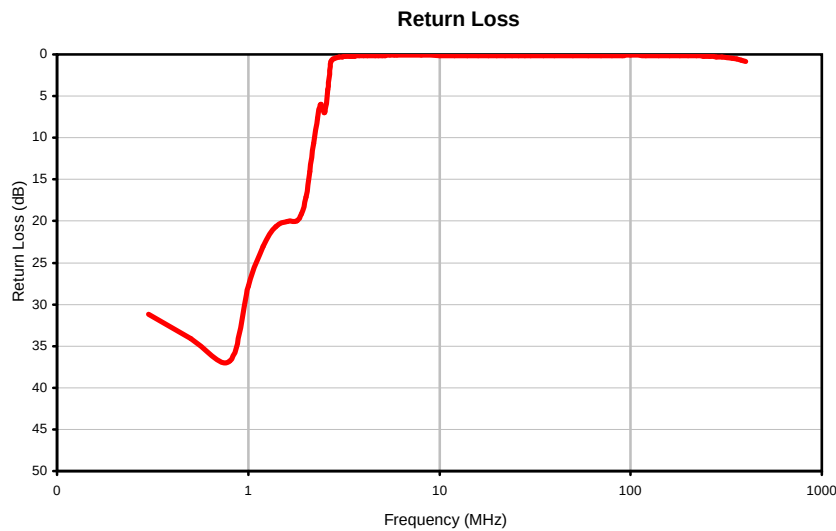
PIN CONNECTIONS

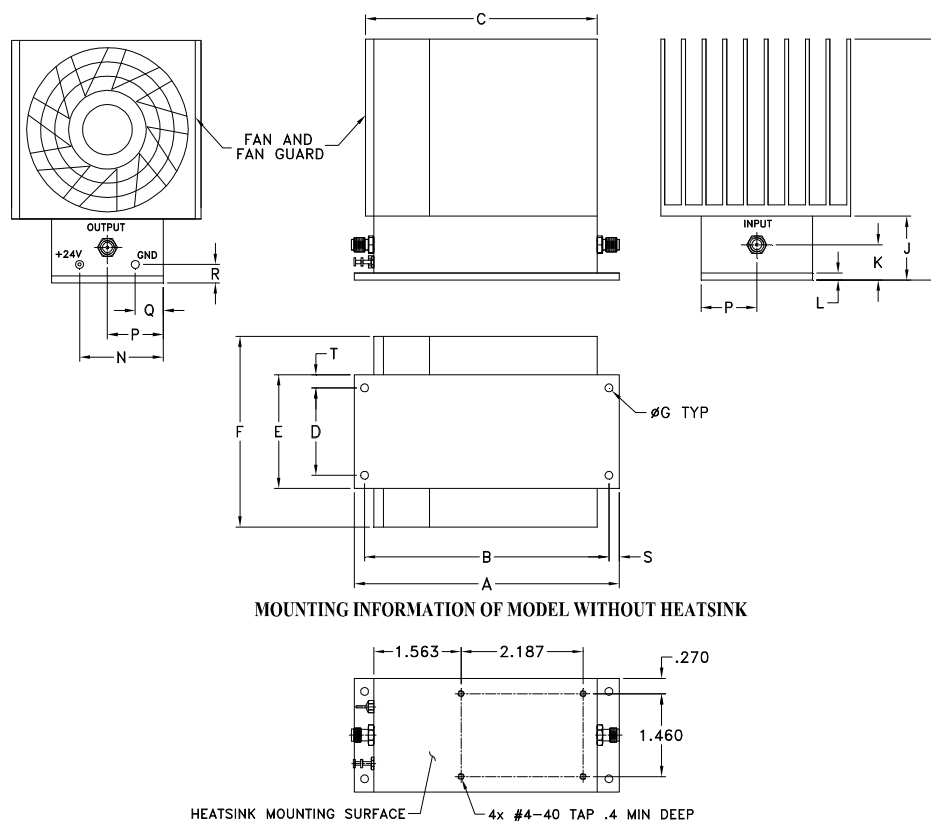
Input	1
Output	2
Not Connected	-
Case Ground	-

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
0.30	0.16	31.18	0.30	303.51
1.00	0.22	27.80	0.40	319.04
1.60	0.42	20.06	0.50	315.23
2.00	0.64	17.12	0.60	317.67
2.10	0.80	14.07	0.65	321.80
2.20	1.08	10.65	0.70	324.97
2.30	1.59	7.70	0.80	331.04
2.40	2.24	5.96	0.85	334.05
2.50	2.55	7.02	0.90	340.13
2.60	5.29	4.20	1.00	347.27
2.70	17.25	0.86	1.10	356.49
2.80	31.10	0.51	1.20	367.78
2.90	48.13	0.40	1.30	381.21
3.00	54.59	0.33	1.40	396.54
3.20	57.45	0.27	1.50	415.73
3.40	75.89	0.22	1.60	439.01
5.00	62.51	0.12	1.70	468.82
1.00	0.22	27.80	1.80	505.13
24.00	90.44	0.17	1.90	551.75
50.00	85.78	0.13	2.00	610.30
100.00	87.23	0.11	2.10	683.09
200.00	88.57	0.16	2.20	770.31
300.00	79.25	0.31	2.30	883.10
400.00	71.39	0.84	2.50	1599.02

Typical Performance Curves





MOUNTING INFORMATION OF MODEL WITHOUT HEATSINK

HEATSINK MOUNTING SURFACE 4x #4-40 TAP .4 MIN DEEP

CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
CP641	4.75 (120.65)	4.375 (111.13)	4.18 (106.17)	1.540 (39.12)	2.00 (50.80)	3.36 (85.34)	.144 (3.66)	4.24 (107.70)	1.12 (28.45)	.58 (14.73)	.125 (3.18)	-- --	1.50 (38.10)

CASE#	P	Q	R	S	T	WT. GRAMS	WT. WITHOUT HEATSINK GRAMS
CP641	1.00 (25.40)	.50 (12.70)	.34 (8.64)	.19 (4.83)	.23 (5.84)	750	290

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Case material: Aluminum alloy.
- Case finish:
For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
- Heat sink finish: Black anodize if supplied with heat sink.



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