



Please reference this number on all communications

Quote No.: 1-QT-131253 Rev.:

Your Ref.: .

May 18, 2020

LELOUET
 CNRS/IJCLab
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Per your request, we are pleased to quote for CNRS/IJCLab the following:

This QUOTE IS VALID THROUGH 17 Jun 2020.

Our PAYMENT TERMS ARE: PREPAY.

Payment terms of quote is contingent upon credit standing.

Delivery Terms: D D P.

Item Number	Description			Customer P/N			
1)	ZX60-2534MA-S+			BROADBAND AMPL / SMA / RoHS			
	Data Sheet						
	Quantity Requested	Quantity Quoted	Unit Price	Subtotal	Minimum Order Qty.	Minimum Shipment Qty.	Note
	4	4	€69.990	€279.960			
Lead Time: CURRENTLY OUT OF STOCK WITH A 4-12 WEEK LEAD-TIME DEPENDING ON THE EVERCHANGING IMPACT OF COVID 19.							

Item Number	Description			Customer P/N		
2)	ZX75BP-B1280-S+	BANDPASS FLTR / SMA / RoHS				
	Data Sheet					
	Quantity Requested	Quantity Quoted	Unit Price	Subtotal	Minimum Order Qty.	Minimum Shipment Qty. Note
	2	2	€86.150	€172.300		
Lead Time: CURRENTLY IN STOCK WITH AN APPROX 1-3 WK LEAD-TIME DEPENDING ON THE EVERCHANGING IMPACT OF COVID 19						
3)	VLF-1450+	FILTER / SMA / RoHS				
	Data Sheet					
	Quantity Requested	Quantity Quoted	Unit Price	Subtotal	Minimum Order Qty.	Minimum Shipment Qty. Note
	2	2	€26.880	€53.760		
Lead Time: CURRENTLY IN STOCK WITH AN APPROX 1-3 WK LEAD-TIME DEPENDING ON THE EVERCHANGING IMPACT OF COVID 19						
4)	DELIVERY EURO	DELIVERY CHARGE EUROS				
	Quantity Requested	Quantity Quoted	Unit Price	Subtotal	Minimum Order Qty.	Minimum Shipment Qty. Note
	1	1	€20.000	€20.000		
Lead Time: .						
_____ A DELIVERY CHARGE APPLIES TO ALL SHIPMENTS UNDER A TOTAL VALUE OF 500 EUROS. _____						

Total Price: €526.020

Delivery may be affected by the availability of materials. Upon order placement scheduled delivery will be advised. . Please note that some terms on your order/quote for deliveries into the EU maybe subject to change in the event of a no deal Brexit. For further details please contact your Account Manager.

Mini-Circuits' standard terms and conditions apply to this Quote, which terms include a standard limited warranty and disclaimers of other warranties and limitation of liability provisions. These terms and conditions are available to view at www.minicircuits.com/MCLStore/terms_uk.jsp. To the extent this Quote conflicts with

Circuits standard terms and conditions, the standard terms and conditions will apply.

Your company may reschedule a release of parts contained within an order provided Mini-Circuits receives written notice of your company's intention to do so at least fifteen (15) days prior to the scheduled shipment date, as specified in Mini-Circuits' records, for the parts that are the subject of the rescheduling request. Unless Mini-Circuits otherwise agree in writing, the maximum delay in shipment of any rescheduled release of parts is ninety (90) days from the original shipment date, as specified in Mini-Circuits' records. Your company shall not have the right to reschedule any particular release of parts more than two (2) times. Notwithstanding anything to the contrary contained herein, (i) once a release of parts is expedited at your company's request, the parts subject to that release may not be rescheduled; or (ii) once a release of parts is rescheduled the parts subject to that release may not be cancelled. If your company fails to comply with any aspect of this rescheduling procedure for a particular release of parts, your company shall promptly pay a "Cancellation Fee" equal to the total price of the parts subject to that release.

This quotation is valid for the period indicated and is based on today's exchange rate. Should this vary by more than +/- 3% we reserve the right to adjust the price accordingly.

We can accept the following cards for payment:- Visa and Mastercard.

Shipments will be made by either DHL or UPS Courier. If you would prefer to use any other method of shipment e.g. your own courier then please advise.

If prepayment is not received within 60 days of the ship date, your order will be subject to cancellation from our system. The order may be placed again at a future date when payment is available.

This quote is not applicable for distribution in the following Embargo/ Restricted countries and/or any entity on the U. S. Dept. of Commerce denials list: Iran, Iraq, Libya, Cuba, North Korea, Syria and Sudan.

Fees for cancellation (*) for customer convenience are as follows:

	Catalog	Non-Catalog
For orders past earliest scheduled ship date:	95%	100%
For orders to be shipped within 1 month:	95%	100%
For orders to be shipped within 2 months:	50%	100%
For orders to be shipped within 3 months:	25%	85%
For orders to be shipped within 6 months:	5%	60%
For orders to be shipped in more than 6 mths:	0%	50%

(*) Cancellation charges based on earliest request of order ship date.

To avoid cancellation charges, each line item may be rescheduled one time within 3 months of the original scheduled ship date. However, any cancellation request after the first rescheduling will be billed at 100% of the purchase order amount. These charges apply unless a model is non-cancellable, non-returnable (NCNR).

Mini-Circuits Europe operates a Quality Management System meeting the requirements of the ISO 9001:2015 standard. If you require a copy of our latest certificate please contact your Account Manager.

Except for any rack mounted systems or portable test equipment, all other parts ordered hereunder are defined as components and do not require EMC approval under directive 2014/30/EU.

(I) The risk in the Goods will pass the Buyer upon delivery but equitable and

beneficial ownership shall remain with the Company until full payment has been received for the goods (each order being considered as a whole). (II) If the Goods shall become constituents of or be converted into other products while subject to the Company's equitable and beneficial ownership, the Company shall have the equitable and beneficial ownership in such other products as if they were solely and simply the Goods, and accordingly paragraph (I) above shall as far as appropriate apply to such other products.

RoHS compliant models are clearly marked with a "+" suffix following the base model number. If you have selected a non-ROHS model and require RoHS compliance please contact your Account Manager. For individual RoHS compliant model details and Mini-Circuits' methodologies, assumptions and qualifications relating to RoHS compliance, please go to www.minicircuits.com and click on the "RoHS/Pb-free Program" button.

We appreciate the opportunity to quote your requirement. For further assistance, please contact me directly.

Thank You



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Distribution Method: Email

Last Page

Low Pass Filter

VLF-1450

50Ω *DC to 1450 MHz



CASE STYLE: FF704

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	10W max. at 25°C
DC Current Input to Output	0.5A max. at 25°C

* Passband rating, derate linearly to 3.5W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

Features

- rugged uni-body construction, small size
- 7 sections
- excellent power handling, 10W
- temperature stable
- low cost
- protected by U.S. Patent 6,943,646

Connectors	Model
SMA	VLF-1450

Price: Contact Sales Dept.

Applications

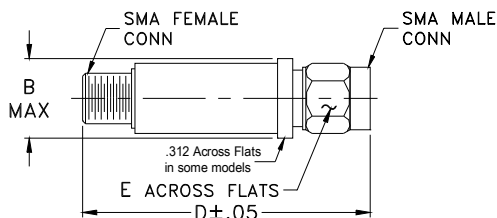
- harmonic rejection
- transmitters/receivers
- lab use

Electrical Specifications at 25°C

PASSBAND (MHz) (loss < 1 dB)	f _{co} , MHz Nom. (loss 3 dB)	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
		f 20 Min.	30 Typ.	fr 20 Typ.	Stopband Typ.	Passband Typ.	
Max.	Typ.						
*DC-1450	1825	2025	2050-6600	6700	20	1.2	7

* Not for use with DC voltage at input and output ports

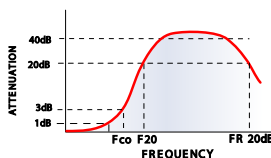
Outline Drawing



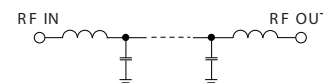
Outline Dimensions (inch/mm)

B	D	E	wt
.410	1.43	.312	grams
10.41	36.32	7.92	10.0

typical frequency response

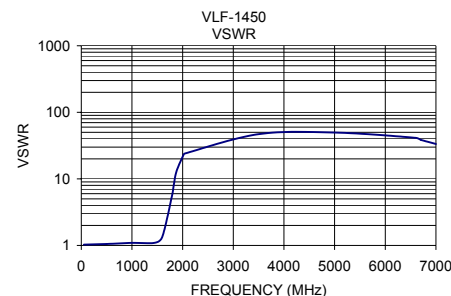
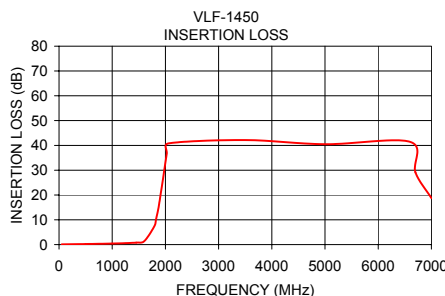


electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.09	1.03
500	0.22	1.05
1000	0.41	1.09
1450	0.79	1.10
1600	1.36	1.35
1790	7.31	5.59
1825	10.28	8.08
1880	16.05	13.09
2025	36.64	23.49
2050	40.77	24.14
3500	42.15	46.96
5000	40.48	49.64
6600	41.43	41.37
6700	29.08	38.61
7000	18.74	33.42



Notes

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Amplifier

ZX60-2534MA+

50Ω 0.5 to 2.5 GHz

Features

- From 2.8V to 5V operation
- High directivity
- Wide bandwidth, 0.5 to 2.5 GHz
- Low noise figure, 2.6 dB typ.
- Output power, up to 18 dBm typ.
- Protected by US patent 6,790,049

Applications

- Buffer amplifier
- Cellular
- PCN
- Lab
- Instrumentation
- Test equipment



CASE STYLE: GA955

Connectors	Model
SMA	ZX60-2534MA-S+

+RoHS Compliant

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

Electrical Specifications at T_{AMB} = 25°C

MODEL NO.	FREQ. (GHz) f _L - f _U	DC VOLTAGE @ Pin V+ (V)	GAIN over frequency in GHz Typ (dB)						MAXIMUM POWER (dBm) Output (1 dB Comp.) Typ. f _L f _U		DYNAMIC RANGE			VSWR (:1) Typ.		ACTIVE DIRECTIVITY (dB) Isolation-Gain Typ.		DC OPERATING CURRENT @ Pin V+ (mA)	
			0.5	1.0	1.5	2.0	2.5	Min. at 2 GHz	NF (dB) Typ.	IP3 (dBm) Typ.	1GHz	1GHz	2GHz	In	Out	f _L	f _U	Typ.	Max.
ZX60-2534MA+	0.5-2.5	5.0	37.5	43.5	43.0	41.0	39.0	38.0	19.0	17.0	2.2	16	18	1.6	1.6	28	16	170	190
		2.8	33.5	38.0	37.5	35.5	33.5	32.0	11.0	12.0	2.6	13	18	1.6	1.3	34	21	160	185

Maximum Ratings

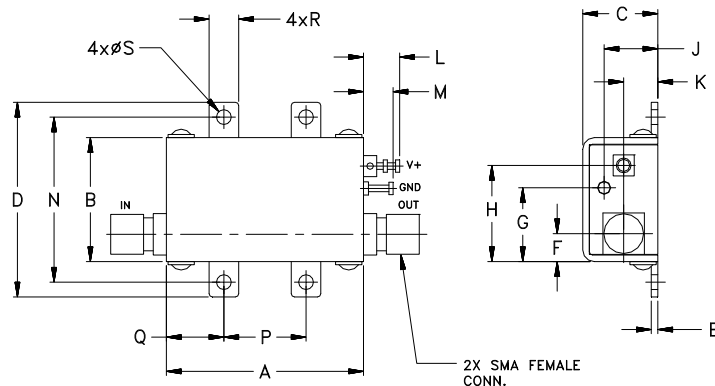
Operating Temperature	-40°C to 80°C case
Storage Temperature	-55°C to 100°C
DC Voltage	7V
Input Power (no damage)	-15dBm
Power Dissipation	0.5W

Permanent damage may occur if any of these limits are exceeded.



NOTE: When soldering the DC connections, caution must be used to avoid overheating the DC terminals. See Application Note [AN-40-10](#).

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	wt.
1.20	.75	.46	1.18	.04	.17	.45	.59	.33	.21	.22	.18	1.00	.50	.35	.18	.106	grams
30.48	19.05	11.68	29.97	1.02	4.32	11.43	14.99	8.38	5.33	5.59	4.57	25.40	12.70	8.89	4.57	2.69	35.0

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Typical Performance Data at 25°C

ZX60-2534MA+

V+ = 5.0V

FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR IN (:1)	VSWR OUT (:1)	POWER OUT @ 1dB COMPRESSION (dBm)	IP3 (dBm)	NF (dB)
500	38.64	37.49	2.78	1.59	18.90	22.42	2.91
550	39.99	30.55	2.59	1.47	19.23	21.49	2.86
600	40.93	29.95	2.41	1.36	19.09	19.75	2.85
650	41.61	34.75	2.27	1.27	19.16	18.9	2.70
700	42.10	28.32	2.14	1.20	19.33	18.54	2.75
800	42.71	23.14	1.94	1.13	19.29	17.28	2.39
900	43.16	30.62	1.81	1.15	19.33	16.96	2.34
1000	43.50	20.67	1.71	1.20	19.15	16.21	2.30
1100	43.71	27.26	1.62	1.24	18.93	15.46	2.06
1300	43.82	22.34	1.48	1.29	18.86	15.54	2.29
1400	43.67	16.21	1.41	1.29	18.65	15.19	2.20
1500	43.42	18.47	1.37	1.28	18.67	15.67	2.24
1600	43.06	20.52	1.31	1.25	18.48	15.94	2.25
1800	42.20	20.24	1.24	1.21	18.03	16.65	2.15
2000	41.30	20.68	1.18	1.16	18.11	17.83	2.00
2200	40.43	25.27	1.14	1.19	17.49	18.35	1.84
2300	40.02	17.35	1.12	1.23	17.24	18.65	2.05
2400	39.62	17.21	1.11	1.27	17.43	18.85	2.14
2450	39.42	16.77	1.11	1.30	17.07	18.99	2.07
2500	39.21	18.21	1.11	1.32	17.16	19.32	1.99

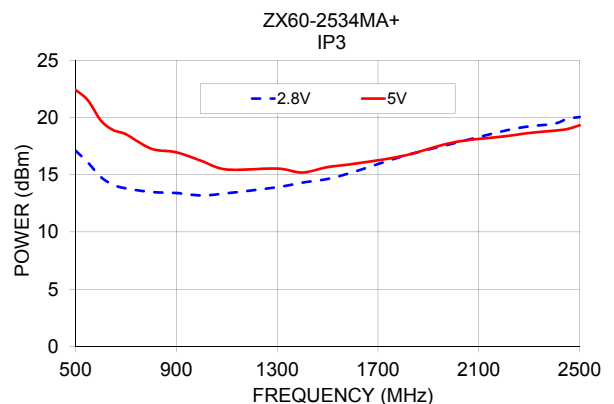
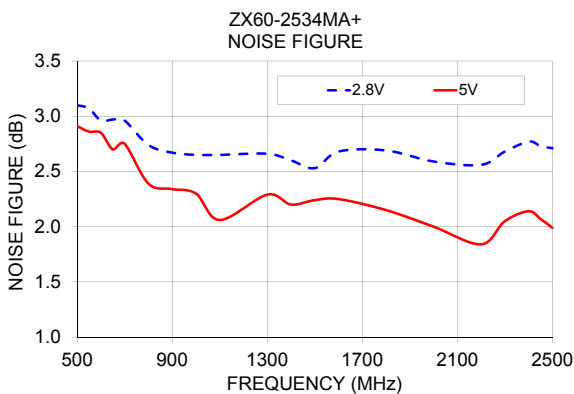
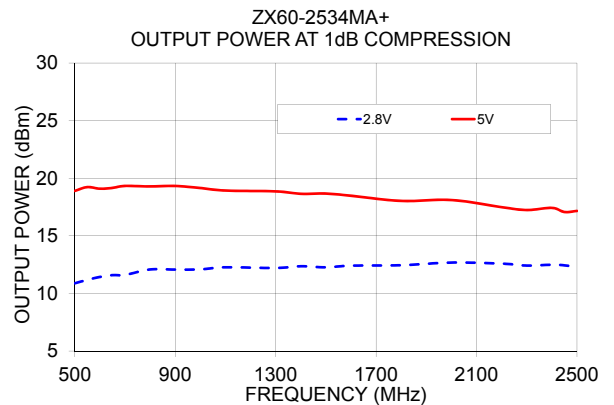
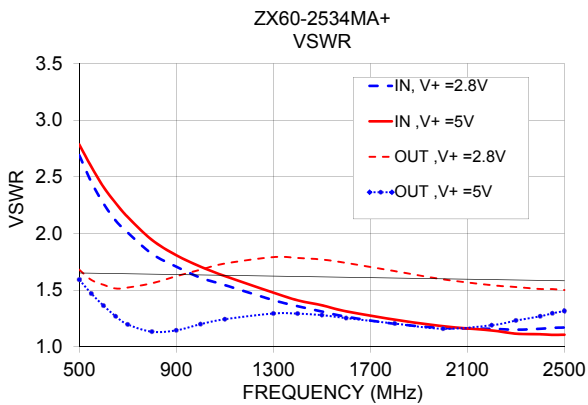
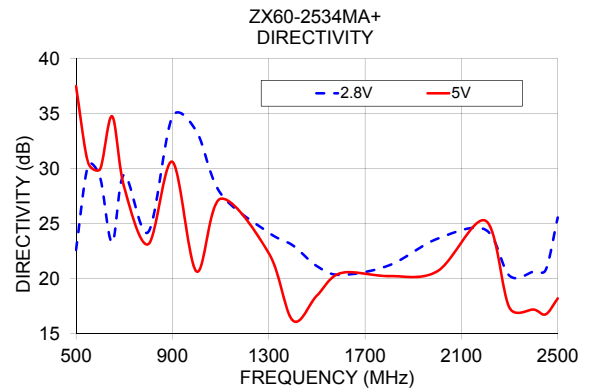
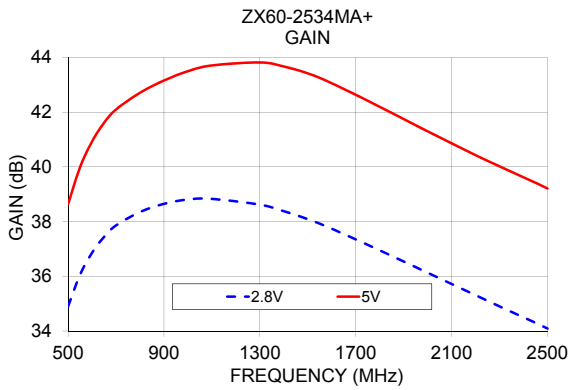
V+ = 2.8V

FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR IN (:1)	VSWR OUT (:1)	POWER OUT @ 1dB COMPRESSION (dBm)	IP3 (dBm)	NF (dB)
500	34.90	22.62	2.69	1.68	10.88	17.11	3.10
550	36.06	30.26	2.45	1.59	11.18	16.05	3.07
600	36.86	29.20	2.26	1.55	11.43	14.81	2.96
650	37.44	23.29	2.11	1.51	11.59	14.12	2.97
700	37.86	29.44	2.01	1.52	11.61	13.81	2.96
800	38.35	24.24	1.82	1.56	12.08	13.49	2.74
900	38.65	34.71	1.71	1.62	12.07	13.4	2.67
1000	38.81	33.39	1.61	1.68	12.09	13.19	2.65
1100	38.83	27.76	1.54	1.73	12.27	13.38	2.65
1300	38.62	24.19	1.41	1.79	12.21	13.91	2.66
1400	38.38	23.03	1.36	1.78	12.36	14.31	2.60
1500	38.09	21.15	1.31	1.77	12.27	14.63	2.53
1600	37.74	20.35	1.27	1.74	12.41	15.22	2.68
1800	36.95	21.22	1.20	1.67	12.45	16.62	2.69
2000	36.13	23.63	1.17	1.60	12.68	17.74	2.59
2200	35.31	24.45	1.16	1.54	12.59	18.83	2.56
2300	34.90	20.27	1.15	1.53	12.42	19.23	2.68
2400	34.50	20.65	1.16	1.51	12.49	19.46	2.77
2450	34.30	20.80	1.17	1.51	12.44	19.88	2.73
2500	34.09	25.56	1.17	1.50	12.28	20.04	2.71

Notes

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Coaxial-Ceramic Resonator Filters and Multiplexers

50Ω

DC to 6 GHz

The Big Deal

- Low insertion loss with excellent power handling
- Passbands up to 6 GHz
- Fractional bandwidth from 3 to 25%
- Excellent temperature stability
- Rugged construction to handle demanding environmental conditions



Product Overview

Mini-Circuits' *Coaxial-Ceramic Resonator filters* offer low insertion loss in very small form factors, using ceramic material with high dielectric constant and superior Q factor. Bandpass and bandstop filters, diplexer and multiplexer designs can be constructed using this technology. Low insertion loss combined with excellent power handling makes these filters well suited for transmitter and receiver signal chains. Advanced filter design and construction can achieve stopband width greater than 3x the center frequency

All our coaxial-ceramic resonator filters are built with rugged construction, qualified to withstand multiple demanding reflow cycles. Excellent repeatability across units is achieved through precise tuning and process control.

Key Features

Feature	Advantages
Low insertion loss	Low signal loss results in better SNR in signal chain
Fast roll-off	Higher selectivity results in better adjacent channel rejection and dynamic range
Wide stop band	Wide spur-free stopband results in better receiver sensitivity
Excellent power handling	Well suited for transmitter applications
Rugged Construction	These filter assemblies have been qualified over a wide range of thermal, mechanical and environmental conditions including withstanding the stress of extensive solder reflow cycles
Small Size	Very well suited for high performance applications where size is a constraint.
Temperature stability	Very minimal change in electrical performance across temperature makes these filters suitable for a wide range of operating conditions.

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Bandpass Filter

ZX75BP-B1280-S+

50Ω 1160 to 1400 MHz



CASE STYLE: HY1238

Connectors SMA-MF Model ZX75BP-B1280-S+

Features

- Low insertion loss
- High selectivity
- High rejection > 60dB
- Connectorized package

Applications

- Aviation
- Research testing & Development
- Earth Exploration-satellite (Active) service
- Fixed wireless transmitters and receivers

Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	1280	-	MHz
	Insertion Loss	F1-F2	1160 - 1400	-	1.0	-
	VSWR	F1-F2	1160 - 1400	-	1.5	1.92
Stop Band, Lower	Insertion Loss	DC-F3	DC - 800	60	68	-
		F3-F4	800 - 955	40	47	-
	VSWR	DC-F4	DC - 955	-	20	-
Stop Band, Upper	Insertion Loss	F5-F6	1570 - 1700	20	28	-
		F6-F7	1700 - 1850	40	47	-
		F7-F8	1850 - 2200	60	68	-
	VSWR	F5-F8	1570 - 2220	-	20	-

Maximum Ratings

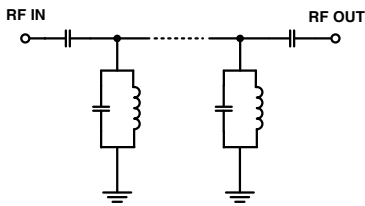
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1 W max.

Permanent damage may occur if any of these limits are exceeded.

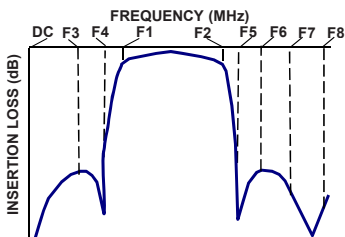
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
1	117.93	17216.83	1160	5.30
10	104.10	48228.15	1170	5.02
100	99.38	3597.16	1180	4.79
800	102.21	75.16	1190	4.60
955	48.04	47.90	1200	4.45
1015	29.43	31.59	1210	4.33
1040	20.88	22.86	1220	4.23
1070	10.48	10.39	1230	4.16
1100	3.11	2.81	1240	4.09
1160	0.95	1.12	1250	4.03
1280	0.73	1.09	1260	3.97
1400	0.84	1.19	1270	3.92
1450	3.20	3.55	1280	3.88
1480	9.69	14.33	1290	3.85
1530	20.85	40.44	1300	3.83
1570	28.26	50.59	1320	3.83
1585	30.79	52.97	1340	3.90
1700	48.25	62.85	1360	4.01
1850	77.62	70.91	1380	4.17
2200	79.09	78.19	1400	4.54

Functional Schematic

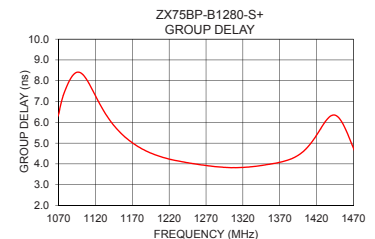
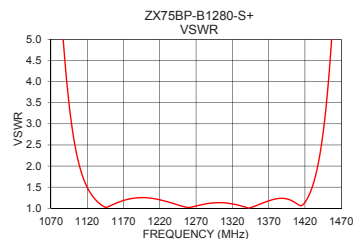
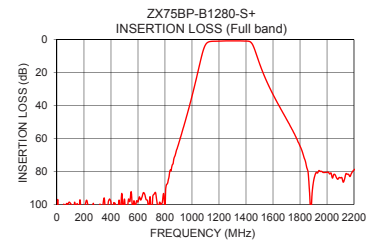
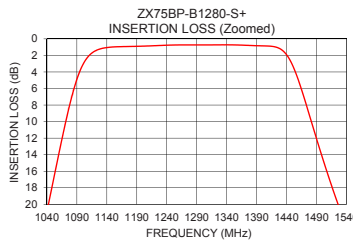


Typical Frequency Response



+RoHS Compliant

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



Notes

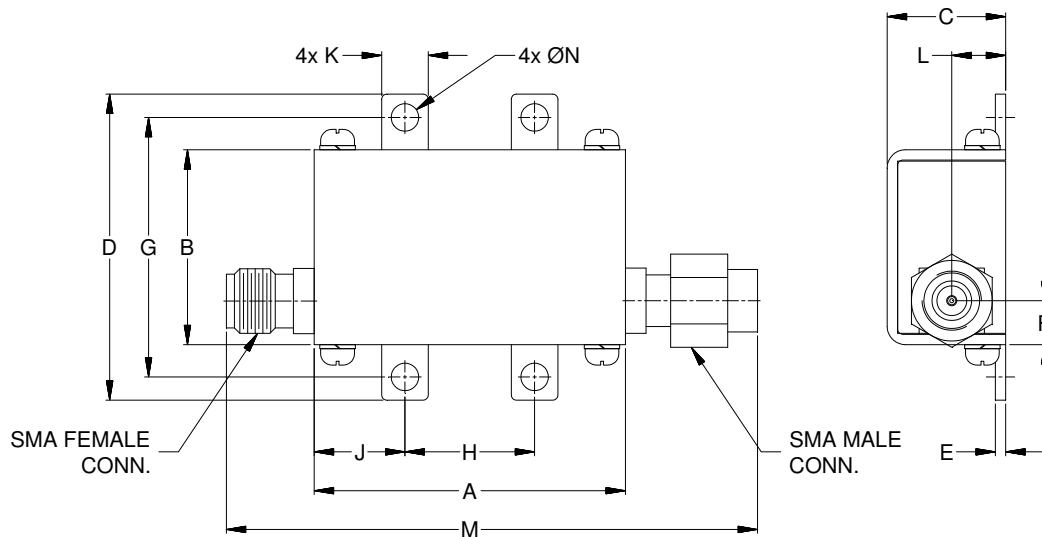
- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



Coaxial Connections

PORT - 1	SMA-MALE
PORT - 2	SMA-FEMALE

Outline Drawing



Outline Dimensions ($\frac{\text{inch}}{\text{mm}}$)

A	B	C	D	E	F	G
1.20	.75	.46	1.18	.04	.17	1.00
30.48	19.05	11.68	29.97	1.02	4.32	25.40
H	J	K	L	M	N	Wt.
.50	.35	.18	.21	2.05	.106	grams
12.70	8.89	4.57	5.28	52.07	2.69	35.0

Notes

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