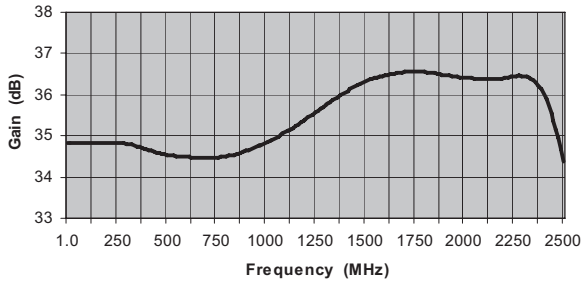


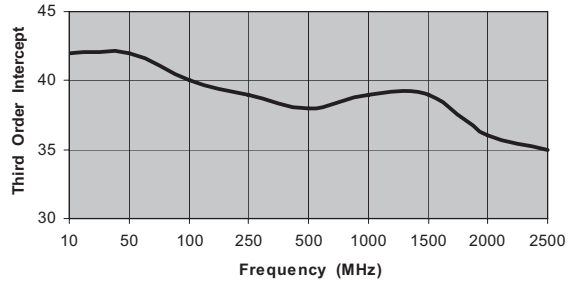
MITEQ AM-1624 SERIES AMPLIFIER

FREQUENCY (MHz)	MODEL NUMBER	GAIN (dB) (Min.)	VAR. (\pm dB) (Max.)	VSWR (Max.)	IMPED. IN/OUT (Ohms)	NOISE FIGURE (dB, Typ.)	P1 dB (dBm) (Typ.)	NOM. DC POWER (mA)	OUTLINE NO.
-----------------	--------------	------------------	-------------------------	-------------	----------------------	-------------------------	--------------------	--------------------	-------------

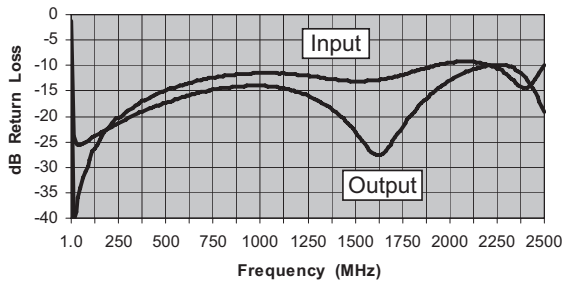
Gain (dB)



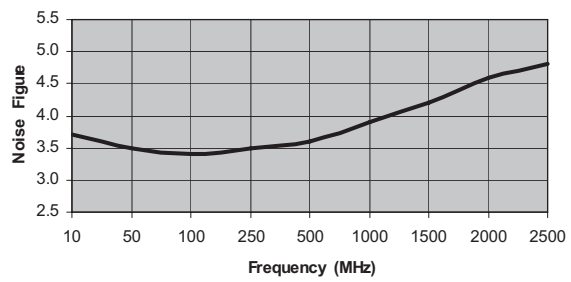
Output Third Order Intercept Point (+dBm)



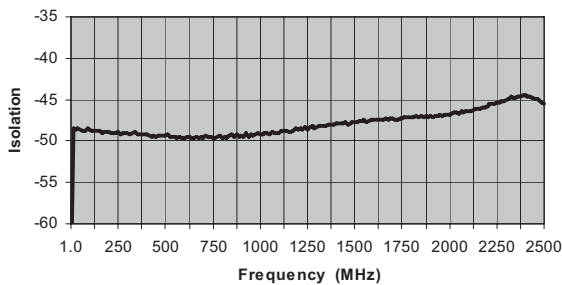
Input & Output Return Loss (dBRL)



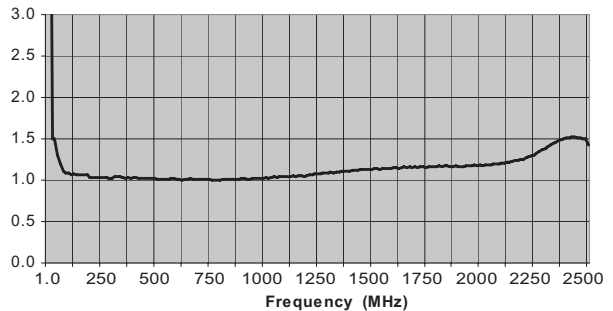
Noise Figure (dB)



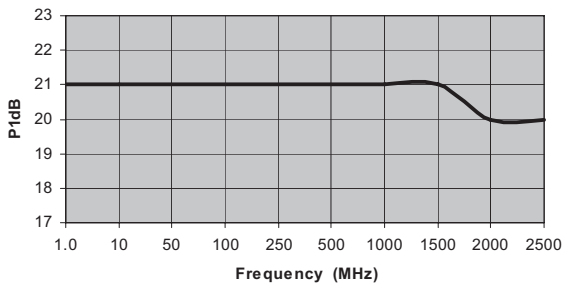
Reverse Isolation (dB)



Delay (Nanoseconds)



Output -1dB Gain Compression (+dBm)



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Freq (MHz)	Gain (dB)
1.0	34.8
13	34.8
25	34.8
38	34.8
50	34.8
63	34.8
75	34.8
88	34.8
100	34.8
113	34.8
125	34.8
138	34.8
150	34.8
163	34.8
175	34.8
188	34.8
200	34.8
213	34.8
225	34.8
238	34.8
250	34.8
263	34.8
275	34.8
288	34.8
300	34.8
313	34.8
325	34.8
338	34.8
350	34.7
363	34.7
375	34.7
388	34.7
400	34.7
413	34.7
425	34.6
438	34.6
450	34.6
463	34.6
475	34.6
488	34.6
500	34.5
513	34.5
525	34.5
538	34.5
550	34.5
563	34.5
575	34.5
588	34.5
600	34.5
613	34.5
625	34.5
638	34.5
650	34.5
663	34.5
675	34.5
688	34.5
700	34.5

Freq (MHz)	Gain (dB)
713	34.5
725	34.5
738	34.5
750	34.5
763	34.5
775	34.5
788	34.5
800	34.5
813	34.5
825	34.5
838	34.5
850	34.5
863	34.6
875	34.6
888	34.6
900	34.6
913	34.7
925	34.7
938	34.7
950	34.7
963	34.8
975	34.8
988	34.8
1000	34.8
1013	34.9
1025	34.9
1038	34.9
1050	35.0
1063	35.0
1075	35.0
1088	35.1
1100	35.1
1113	35.1
1125	35.2
1138	35.2
1150	35.2
1163	35.3
1175	35.3
1188	35.4
1200	35.4
1213	35.4
1225	35.5
1238	35.5
1250	35.6
1263	35.6
1275	35.7
1288	35.7
1300	35.7
1313	35.8
1325	35.8
1338	35.9
1350	35.9
1363	35.9
1375	36.0
1388	36.0
1400	36.1
1413	36.1

Freq (MHz)	Gain (dB)
1425	36.1
1438	36.2
1450	36.2
1463	36.2
1475	36.3
1488	36.3
1500	36.3
1513	36.3
1525	36.4
1538	36.4
1550	36.4
1563	36.4
1575	36.4
1588	36.5
1600	36.5
1613	36.5
1625	36.5
1638	36.5
1650	36.5
1663	36.5
1675	36.5
1688	36.5
1700	36.5
1713	36.6
1725	36.6
1738	36.6
1750	36.6
1763	36.6
1775	36.6
1788	36.6
1800	36.6
1813	36.5
1825	36.5
1838	36.5
1850	36.5
1863	36.5
1875	36.5
1888	36.5
1900	36.5
1913	36.5
1925	36.5
1938	36.5
1950	36.4
1963	36.4
1975	36.4
1988	36.4
2000	36.4
2013	36.4
2025	36.4
2038	36.4
2050	36.4
2063	36.4
2075	36.4
2088	36.4
2100	36.4
2113	36.4
2125	36.4

Freq (MHz)	Gain (dB)
2138	36.4
2150	36.4
2163	36.4
2175	36.4
2188	36.4
2200	36.4
2213	36.4
2225	36.4
2238	36.4
2250	36.4
2263	36.5
2275	36.5
2288	36.5
2300	36.5
2313	36.4
2325	36.4
2338	36.4
2350	36.4
2363	36.3
2375	36.2
2388	36.1
2400	36.0
2413	35.9
2425	35.7
2438	35.6
2450	35.4
2463	35.2
2475	34.9
2488	34.7
2500	34.4



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Freq (MHz)	Input VSWR (dBRL)	Output VSWR (dBRL)
1.0	-8	-1
13	-40	-24
25	-39	-25
38	-36	-26
50	-34	-26
63	-32	-25
75	-31	-25
88	-30	-25
100	-29	-24
113	-27	-24
125	-26	-24
138	-26	-24
150	-25	-23
163	-24	-23
175	-23	-23
188	-23	-23
200	-22	-22
213	-21	-22
225	-21	-22
238	-20	-22
250	-20	-21
263	-20	-21
275	-20	-21
288	-19	-21
300	-19	-20
313	-19	-20
325	-18	-20
338	-18	-20
350	-18	-19
363	-17	-19
375	-17	-19
388	-17	-19
400	-17	-19
413	-16	-18
425	-16	-18
438	-16	-18
450	-16	-18
463	-15	-18
475	-15	-18
488	-15	-17
500	-15	-17
513	-15	-17
525	-15	-17
538	-14	-17
550	-14	-17
563	-14	-17
575	-14	-16
588	-14	-16
600	-14	-16
613	-14	-16
625	-13	-16
638	-13	-16
650	-13	-16
663	-13	-15
675	-13	-15
688	-13	-15
700	-13	-15
713	-13	-15
725	-13	-15
738	-12	-15
750	-12	-15
763	-12	-15
775	-12	-15

Freq (MHz)	Input VSWR (dBRL)	Output VSWR (dBRL)
788	-12	-15
800	-12	-14
813	-12	-14
825	-12	-14
838	-12	-14
850	-12	-14
863	-12	-14
875	-12	-14
888	-12	-14
900	-12	-14
913	-12	-14
925	-12	-14
938	-12	-14
950	-12	-14
963	-11	-14
975	-12	-14
988	-11	-14
1000	-12	-14
1013	-11	-14
1025	-11	-14
1038	-11	-14
1050	-11	-14
1063	-12	-14
1075	-11	-14
1088	-11	-14
1100	-12	-14
1113	-12	-14
1125	-12	-14
1138	-12	-15
1150	-12	-15
1163	-12	-15
1175	-12	-15
1188	-12	-15
1200	-12	-15
1213	-12	-15
1225	-12	-16
1238	-12	-16
1250	-12	-16
1263	-12	-16
1275	-12	-16
1288	-12	-17
1300	-12	-17
1313	-12	-17
1325	-12	-17
1338	-12	-18
1350	-13	-18
1363	-13	-18
1375	-13	-19
1388	-13	-19
1400	-13	-19
1413	-13	-20
1425	-13	-20
1438	-13	-20
1450	-13	-21
1463	-13	-21
1475	-13	-22
1488	-13	-22
1500	-13	-23
1513	-13	-24
1525	-13	-24
1538	-13	-25
1550	-13	-25
1563	-13	-26

Freq (MHz)	Input VSWR (dBRL)	Output VSWR (dBRL)
1575	-13	-27
1588	-13	-27
1600	-13	-27
1613	-13	-28
1625	-13	-28
1638	-13	-27
1650	-13	-27
1663	-13	-27
1675	-12	-26
1688	-12	-25
1700	-12	-25
1713	-12	-24
1725	-12	-23
1738	-12	-23
1750	-12	-22
1763	-12	-21
1775	-12	-21
1788	-11	-20
1800	-11	-20
1813	-11	-19
1825	-11	-18
1838	-11	-18
1850	-11	-17
1863	-11	-17
1875	-11	-17
1888	-10	-16
1900	-10	-16
1913	-10	-15
1925	-10	-15
1938	-10	-15
1950	-10	-14
1963	-10	-14
1975	-10	-14
1988	-9	-13
2000	-9	-13
2013	-9	-13
2025	-9	-12
2038	-9	-12
2050	-9	-12
2063	-9	-12
2075	-9	-11
2088	-9	-11
2100	-9	-11
2113	-9	-11
2125	-9	-11
2138	-9	-11
2150	-9	-10
2163	-10	-10
2175	-10	-10
2188	-10	-10
2200	-10	-10
2213	-10	-10
2225	-10	-10
2238	-10	-10
2250	-11	-10
2263	-11	-10
2275	-11	-10
2288	-11	-10
2300	-12	-10
2313	-12	-10
2325	-13	-10
2338	-13	-11
2350	-13	-11

Freq (MHz)	Input VSWR (dBRL)	Output VSWR (dBRL)
2363	-14	-11
2375	-14	-11
2388	-14	-12
2400	-14	-12
2413	-14	-13
2425	-14	-14
2438	-13	-14
2450	-13	-15
2463	-12	-16
2475	-11	-17
2488	-11	-18
2500	-10	-19



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Freq (MHz)	Reverse Isolation (dB)
1.0	-67
13	-48
25	-49
38	-49
50	-49
63	-49
75	-49
88	-48
100	-49
113	-49
125	-49
138	-49
150	-49
163	-49
175	-49
188	-49
200	-49
213	-49
225	-49
238	-49
250	-49
263	-49
275	-49
288	-49
300	-49
313	-49
325	-49
338	-49
350	-49
363	-49
375	-49
388	-49
400	-49
413	-49
425	-49
438	-49
450	-49
463	-49
475	-49
488	-49
500	-49
513	-49
525	-49
538	-49
550	-49
563	-50
575	-49
588	-50
600	-50
613	-49
625	-49
638	-50
650	-50
663	-50
675	-50
688	-50

Freq (MHz)	Reverse Isolation (dB)
700	-50
713	-49
725	-49
738	-49
750	-50
763	-50
775	-49
788	-49
800	-50
813	-50
825	-50
838	-49
850	-49
863	-50
875	-49
888	-49
900	-49
913	-49
925	-49
938	-49
950	-49
963	-49
975	-49
988	-49
1000	-49
1013	-49
1025	-49
1038	-49
1050	-49
1063	-49
1075	-49
1088	-49
1100	-49
1113	-49
1125	-49
1138	-49
1150	-49
1163	-49
1175	-49
1188	-49
1200	-49
1213	-49
1225	-49
1238	-48
1250	-49
1263	-48
1275	-48
1288	-48
1300	-48
1313	-48
1325	-48
1338	-48
1350	-48
1363	-48
1375	-48
1388	-48

Freq (MHz)	Reverse Isolation (dB)
1400	-48
1413	-48
1425	-48
1438	-48
1450	-48
1463	-48
1475	-48
1488	-48
1500	-48
1513	-48
1525	-48
1538	-48
1550	-47
1563	-48
1575	-48
1588	-47
1600	-47
1613	-47
1625	-47
1638	-47
1650	-47
1663	-47
1675	-47
1688	-47
1700	-47
1713	-47
1725	-47
1738	-47
1750	-47
1763	-47
1775	-47
1788	-47
1800	-47
1813	-47
1825	-47
1838	-47
1850	-47
1863	-47
1875	-47
1888	-47
1900	-47
1913	-47
1925	-47
1938	-47
1950	-47
1963	-47
1975	-47
1988	-47
2000	-47
2013	-47
2025	-47
2038	-47
2050	-47
2063	-46
2075	-47
2088	-46

Freq (MHz)	Reverse Isolation (dB)
2100	-46
2113	-46
2125	-46
2138	-46
2150	-46
2163	-46
2175	-46
2188	-46
2200	-46
2213	-46
2225	-46
2238	-45
2250	-45
2263	-45
2275	-45
2288	-45
2300	-45
2313	-45
2325	-45
2338	-45
2350	-45
2363	-45
2375	-45
2388	-45
2400	-45
2413	-45
2425	-45
2438	-45
2450	-45
2463	-45
2475	-45
2488	-45
2500	-46



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Freq (MHz)	Delay (Ns)
1.0	210.0
13	7.0
25	1.5
38	1.5
50	1.3
63	1.2
75	1.1
88	1.1
100	1.1
113	1.1
125	1.1
138	1.1
150	1.1
163	1.1
175	1.1
188	1.1
200	1.0
213	1.0
225	1.0
238	1.0
250	1.0
263	1.0
275	1.0
288	1.0
300	1.0
313	1.0
325	1.0
338	1.0
350	1.0
363	1.0
375	1.0
388	1.0
400	1.0
413	1.0
425	1.0
438	1.0
450	1.0
463	1.0
475	1.0
488	1.0
500	1.0
513	1.0
525	1.0
538	1.0
550	1.0
563	1.0
575	1.0
588	1.0
600	1.0
613	1.0
625	1.0
638	1.0
650	1.0
663	1.0
675	1.0
688	1.0
700	1.0

Freq (MHz)	Delay (Ns)
713	1.0
725	1.0
738	1.0
750	1.0
763	1.0
775	1.0
788	1.0
800	1.0
813	1.0
825	1.0
838	1.0
850	1.0
863	1.0
875	1.0
888	1.0
900	1.0
913	1.0
925	1.0
938	1.0
950	1.0
963	1.0
975	1.0
988	1.0
1000	1.0
1013	1.0
1025	1.0
1038	1.0
1050	1.0
1063	1.0
1075	1.0
1088	1.0
1100	1.0
1113	1.0
1125	1.0
1138	1.1
1150	1.0
1163	1.1
1175	1.1
1188	1.0
1200	1.1
1213	1.1
1225	1.1
1238	1.1
1250	1.1
1263	1.1
1275	1.1
1288	1.1
1300	1.1
1313	1.1
1325	1.1
1338	1.1
1350	1.1
1363	1.1
1375	1.1
1388	1.1
1400	1.1
1413	1.1

Freq (MHz)	Delay (Ns)
1425	1.1
1438	1.1
1450	1.1
1463	1.1
1475	1.1
1488	1.1
1500	1.1
1513	1.1
1525	1.1
1538	1.1
1550	1.1
1563	1.1
1575	1.1
1588	1.1
1600	1.2
1613	1.1
1625	1.1
1638	1.2
1650	1.2
1663	1.2
1675	1.2
1688	1.2
1700	1.2
1713	1.2
1725	1.2
1738	1.2
1750	1.2
1763	1.2
1775	1.2
1788	1.2
1800	1.2
1813	1.2
1825	1.2
1838	1.2
1850	1.2
1863	1.2
1875	1.2
1888	1.2
1900	1.2
1913	1.2
1925	1.2
1938	1.2
1950	1.2
1963	1.2
1975	1.2
1988	1.2
2000	1.2
2013	1.2
2025	1.2
2038	1.2
2050	1.2
2063	1.2
2075	1.2
2088	1.2
2100	1.2
2113	1.2
2125	1.2

Freq (MHz)	Delay (Ns)
2138	1.2
2150	1.2
2163	1.2
2175	1.2
2188	1.2
2200	1.3
2213	1.3
2225	1.3
2238	1.3
2250	1.3
2263	1.3
2275	1.3
2288	1.4
2300	1.4
2313	1.4
2325	1.4
2338	1.4
2350	1.5
2363	1.5
2375	1.5
2388	1.5
2400	1.5
2413	1.5
2425	1.5
2438	1.5
2450	1.5
2463	1.5
2475	1.5
2488	1.5
2500	1.4



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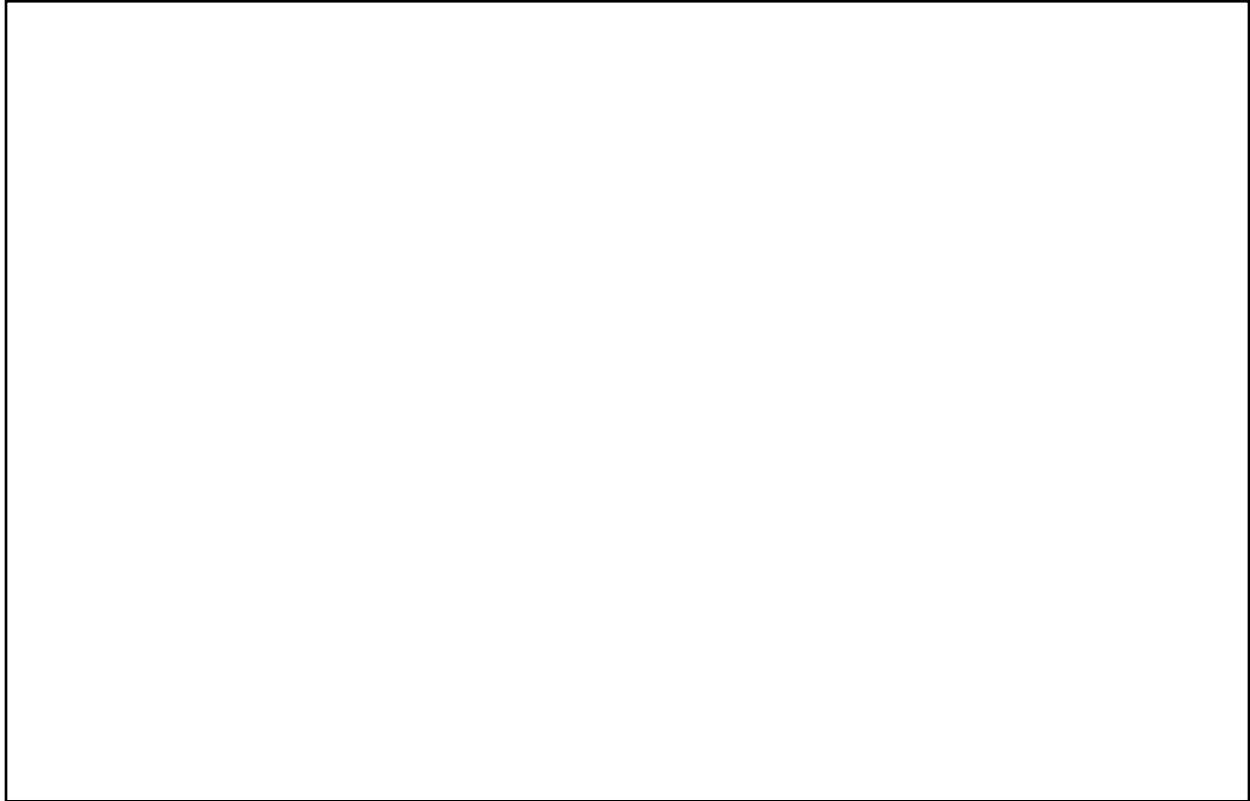
MITEQ AM-1624 SERIES AMPLIFIER

OUTLINE

DIM A

DIM B

OUNCES



NOTE: DIMENSIONS ARE IN INCHES [MILLIMETERS].



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OPTIONS FOR BIPOLAR AMPLIFIERS

INPUT BIAS TEE

Add Suffix "-F"

Used to inject bias signal to photo diode or other type of device. Check for availability on your model before ordering. Available on most units operating above 1 MHz. Please contact MITEQ with your custom requirements.

BIAS THROUGH THE OUTPUT CONNECTOR

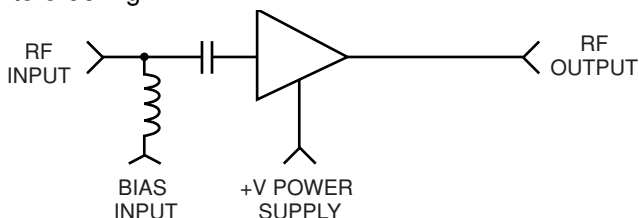
Add Suffix "-1306/E" or "-1306/D"

Used to supply operating power when the amplifier is remotely located while eliminating the need to run a separate DC line. Specify whether existing power pin should be "Enabled" or "Disabled." To order, add -1306/E or -1306/D after model number. Example: AU-2A-0150-1306/E will have existing +15 V pin enabled so that it can be used as a test point. Use caution with this option since any voltage applied here will also be present on the RF output center pin. Available on most units operating above 1 MHz.

BIAS THROUGH THE OUTPUT CONNECTOR WITH DC FEEDTHROUGH TO RF INPUT

Add Suffix "-1334/E" or "-1334/D"

Used to supply operating power when the amplifier is remotely located and eliminates the need to run a separate DC line. This DC voltage is then internally fed to the RF input to power a remote LNA or other low power equipment. Maximum current of external load will vary with model type. Available on most units operating above 1 MHz. Please contact factory prior to ordering.



Specify whether existing power pin should be "Enabled" or "Disabled". To order, add "-1334/E" or "-1334/D"

after model number. Example: AU-2A-0150-1334/E will have existing +15 V pin enabled so that it can be used as a test point. Use caution with this option since any voltage applied here will also be present on both the RF output and input center pins.

TYPE N OR BNC CONNECTORS

Add Suffix "-N" or "-BNC"

Type N-female and type BNC-female are available for all outlines 1 through 5, 12, 13 and 15 amplifiers. Add connector type after model number. Examples: AU-2A-0150-N; AU-2A-0150-BNC. Type N-male and mixed connector types are also available on request. Please call MITEQ with your specific requirements.

INPUT INTERNAL LIMITER

Add Suffix "-1103"

Available on models up to 500 MHz. Will protect the input stage from CW signals as high as +30 dBm. To order, add "-1103" after model number. Example: AU-2A-0150-1103. Options are available for protection against short duration pulses up to 50 W.

AC POWER SUPPLY (100 to 240 VAC, 47 - 440 Hz). Add Suffix "-1179"

Available as an add-on to most models using outlines 1 through 5 and 15. Includes 6-foot line cord with standard US line plug, internal fuse, on/off switch and LED indicator light. Amplifier is permanently mounted to power supply. To order, add "-1179" after model number. Example: AU-2A-0150-1179. Refer to outline 12 for dimensions.

AC POWER SUPPLY (Wall plug-in unit) Part Number "205531-19"

A low cost alternate to option "-1179", the wall plug-in unit is a small switching power supply capable of delivering 1 amp at 15 volts.

AC POWER SUPPLY WITH SMC CONNECTORS (Wall plug-in unit) Part Number "-1179SC"

Same as above except has mating SMC connectors on amplifier DC input and power supply DC output. Available for outlines 1 through 10, 13 and 15.

ADDITIONAL OPTIONS AVAILABLE

OPTION	SUFFIX
Gain Window	-GW
Phase Match	-PM
Amplitude Match	-AM
Gain Control	-GC

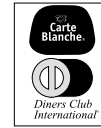


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GENERAL INFORMATION

PRICING AND TERMS

A quotation on any item in the catalog is available by contacting the factory. All quotations, unless otherwise noted, are valid for 60 days from the date of issue, F.O.B. (FCA) Hauppauge, NY 11788. Pricing does not include customer or government source inspection unless otherwise noted. On international orders, an irrevocable letter of credit may be required. MITEQ accepts these credit cards:



QUANTITY DISCOUNTS

A quantity discount is generally available on most catalog items. Due to the wide variety of devices in the catalog, it is not possible to provide a standard discount schedule. When quantities are involved, please contact the factory and the appropriate information will be provided.

SOURCE INSPECTION

Government / customer source inspection is available on any item upon receipt of the complete written confirmation of purchase order items, including the prime government contract number. Source inspection with respect to some products increases the unit price and extends delivery because of duplicate standard final inspection and testing. It is recommended wherever possible that a Certificate of Compliance be substituted for source inspection to minimize price and delivery delays.

SHIPPING INFORMATION

Unless instructed otherwise by the customer, we will ship UPS in the U.S. F.O.B. (FCA) Hauppauge. Air freight will be used as the primary international means of shipment. Please indicate at time of purchase what method of shipment you require.

RETURNED MATERIAL

When returning material for repair or replacement, please ensure that there is complete information included with the shipment, giving a detailed description of the reason for its return, the date and purchase order on which it was obtained, and the exact address to which the material is to be reshipped. All returns must arrive freight, postage, duties and handling prepaid.

REPAIR COSTS

Warranty repairs will be made at no cost to the customer. Units out of warranty, or those which have been mishandled, will require approval by the customer for the charges involved before the repairs can be accomplished. We will provide an estimate for the cost of the repair, which can be applied to the repair, if approval is granted. For those items that are deemed beyond repair, or where the customer may decide not to repair the unit, an evaluation fee and handling charge will be applicable.

APPLICATION ENGINEERING

We maintain a large support staff of engineers who are experts in specific areas of microwave technology. Each has an engineering background that combines both a formal engineering education with training and experience in product design. As further technical support, we make available the services of our engineering and scientific staff, who may be consulted on more advanced circuit designs or application problems.

DRAWINGS AND SPECIFICATIONS

The material presented in this catalog was current at the time of publication. MITEQ Inc.'s continuing product improvement program makes it necessary to reserve the right to change our mechanical and electrical specifications without notice. If either of these parameters is critical, please contact the factory to verify that the information is current.

ADDITIONAL INFORMATION

WARRANTY

ISO 9001:2000 Certified



MITEQ FEDERAL SUPPLY CODE

Our Federal Supply Code is: 33592



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