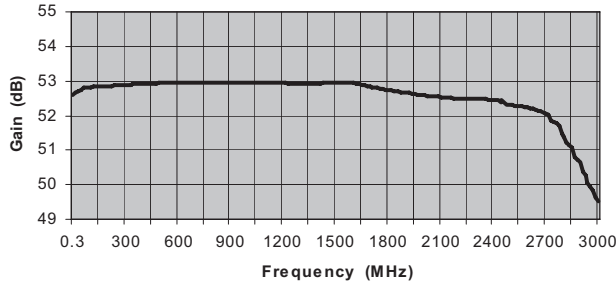


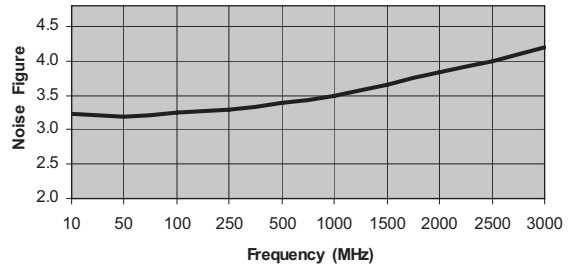
# MITEQ AM-1634 SERIES AMPLIFIER

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.
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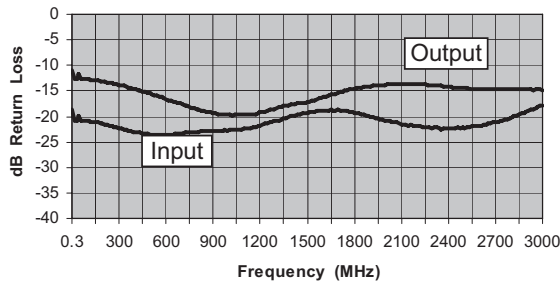
Gain (dB)



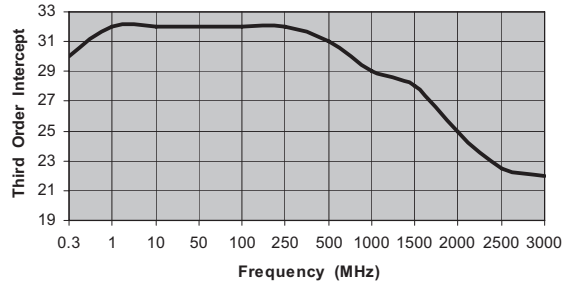
Noise Figure (dB)



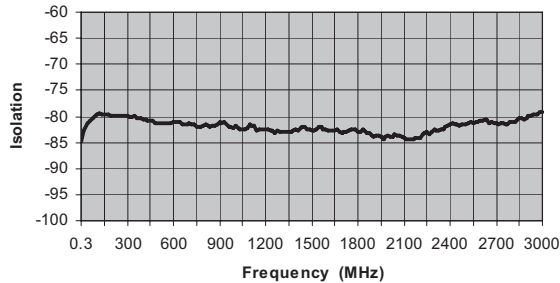
Input & Output Return Loss (dBRL)



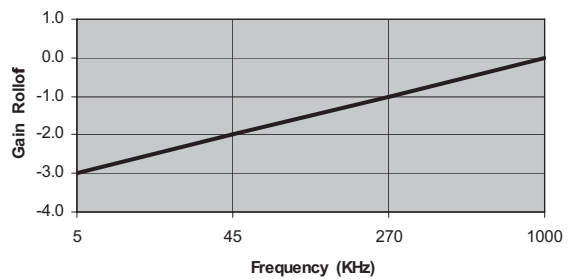
Output Third Order Intercept Point (+dBm)



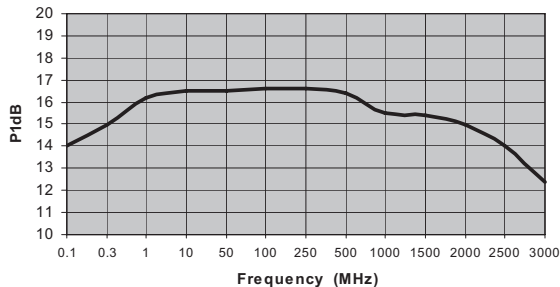
Reverse Isolation (dB)



Low Frequency Gain Rolloff (dB)



Output -1dB Gain Compression (+dBm)



ISO 9001:2000 Certified • General Information • Warranty



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## MITEQ AM-1634 SERIES AMPLIFIER

Freq. (MHz)	Gain (dB)
0.3	52.6
15	52.7
30	52.7
45	52.8
60	52.8
75	52.8
90	52.8
105	52.8
120	52.8
135	52.8
150	52.8
165	52.8
180	52.8
195	52.9
210	52.9
225	52.9
240	52.9
255	52.9
270	52.9
285	52.9
300	52.9
315	52.9
330	52.9
345	52.9
360	52.9
375	52.9
390	52.9
405	52.9
420	52.9
435	52.9
450	52.9
465	52.9
480	52.9
495	52.9
510	52.9
525	52.9
540	52.9
555	52.9
570	52.9
585	52.9
600	52.9
615	53.0
630	53.0
645	53.0
660	53.0
675	52.9
690	52.9
705	52.9
720	52.9
735	52.9
750	52.9
765	53.0
780	53.0
795	53.0
810	53.0
825	53.0
840	53.0

Freq. (MHz)	Gain (dB)
855	53.0
870	53.0
885	52.9
900	52.9
915	52.9
930	52.9
945	52.9
960	52.9
975	52.9
990	52.9
1005	52.9
1020	52.9
1035	52.9
1050	52.9
1065	52.9
1080	52.9
1095	52.9
1110	52.9
1125	53.0
1140	53.0
1155	53.0
1170	53.0
1185	52.9
1200	52.9
1215	52.9
1230	52.9
1245	52.9
1260	52.9
1275	52.9
1290	52.9
1305	52.9
1320	52.9
1335	52.9
1350	52.9
1365	52.9
1380	52.9
1395	52.9
1410	52.9
1425	52.9
1440	52.9
1455	52.9
1470	53.0
1485	53.0
1500	53.0
1515	53.0
1530	53.0
1545	53.0
1560	53.0
1575	53.0
1590	52.9
1605	52.9
1620	52.9
1635	52.9
1650	52.9
1665	52.9
1680	52.9
1695	52.8

Freq. (MHz)	Gain (dB)
1710	52.8
1725	52.8
1740	52.8
1755	52.8
1770	52.8
1785	52.8
1800	52.7
1815	52.7
1830	52.7
1845	52.7
1860	52.7
1875	52.7
1890	52.7
1905	52.7
1920	52.7
1935	52.6
1950	52.6
1965	52.6
1980	52.6
1995	52.6
2010	52.6
2025	52.6
2040	52.6
2055	52.6
2070	52.6
2085	52.5
2100	52.5
2115	52.5
2130	52.5
2145	52.5
2160	52.5
2175	52.5
2190	52.5
2205	52.5
2220	52.5
2235	52.5
2250	52.5
2265	52.5
2280	52.5
2295	52.5
2310	52.5
2325	52.5
2340	52.5
2355	52.5
2370	52.5
2385	52.5
2400	52.5
2415	52.5
2430	52.5
2445	52.5
2460	52.4
2475	52.4
2490	52.4
2505	52.4
2520	52.4
2535	52.4
2550	52.4

Freq. (MHz)	Gain (dB)
2565	52.4
2580	52.4
2595	52.4
2610	52.4
2625	52.3
2640	52.3
2655	52.3
2670	52.3
2685	52.2
2700	52.2
2715	52.2
2730	52.1
2745	52.1
2760	52.0
2775	52.0
2790	51.9
2805	51.9
2820	51.8
2835	51.8
2850	51.7
2865	51.6
2880	51.6
2895	51.5
2910	51.4
2925	51.3
2940	51.2
2955	51.1
2970	51.0
2985	50.9
3000	50.8



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# MITEQ AM-1634 SERIES AMPLIFIER

Freq. (MHz)	Input VSWR (dBRL)	Output VSWR (dBRL)
0.3	-19	-12
15	-21	-13
30	-21	-13
45	-20	-12
60	-21	-13
75	-21	-13
90	-21	-13
105	-21	-13
120	-21	-13
135	-21	-13
150	-21	-13
165	-21	-13
180	-21	-13
195	-21	-13
210	-22	-13
225	-22	-13
240	-22	-13
255	-22	-13
270	-22	-14
285	-22	-14
300	-22	-14
315	-22	-14
330	-23	-14
345	-23	-14
360	-23	-14
375	-23	-14
390	-23	-15
405	-23	-15
420	-23	-15
435	-23	-15
450	-23	-15
465	-23	-15
480	-23	-15
495	-24	-15
510	-24	-16
525	-24	-16
540	-24	-16
555	-24	-16
570	-24	-16
585	-24	-16
600	-24	-17
615	-24	-17
630	-24	-17
645	-23	-17
660	-23	-17
675	-23	-17
690	-23	-17
705	-23	-18
720	-23	-18
735	-23	-18
750	-23	-18
765	-23	-18
780	-23	-18
795	-23	-19
810	-23	-19
825	-23	-19
840	-23	-19
855	-23	-19
870	-23	-19
885	-23	-19
900	-23	-19
915	-23	-19
930	-23	-20

Freq. (MHz)	Input VSWR (dBRL)	Output VSWR (dBRL)
945	-23	-20
960	-23	-20
975	-23	-20
990	-23	-20
1005	-23	-20
1020	-23	-20
1035	-23	-20
1050	-23	-20
1065	-23	-20
1080	-23	-20
1095	-22	-20
1110	-22	-20
1125	-22	-20
1140	-22	-20
1155	-22	-20
1170	-22	-20
1185	-22	-19
1200	-22	-19
1215	-22	-19
1230	-21	-19
1245	-21	-19
1260	-21	-19
1275	-21	-19
1290	-21	-19
1305	-21	-18
1320	-21	-18
1335	-21	-18
1350	-20	-18
1365	-20	-18
1380	-20	-18
1395	-20	-18
1410	-20	-18
1425	-20	-18
1440	-20	-18
1455	-20	-17
1470	-19	-17
1485	-19	-17
1500	-19	-17
1515	-19	-17
1530	-19	-17
1545	-19	-17
1560	-19	-17
1575	-19	-17
1590	-19	-16
1605	-19	-16
1620	-19	-16
1635	-19	-16
1650	-19	-16
1665	-19	-16
1680	-19	-16
1695	-19	-15
1710	-19	-15
1725	-19	-15
1740	-19	-15
1755	-19	-15
1770	-19	-15
1785	-19	-15
1800	-19	-15
1815	-19	-15
1830	-19	-14
1845	-20	-14
1860	-20	-14
1875	-20	-14

Freq. (MHz)	Input VSWR (dBRL)	Output VSWR (dBRL)
1890	-20	-14
1905	-20	-14
1920	-20	-14
1935	-20	-14
1950	-20	-14
1965	-21	-14
1980	-21	-14
1995	-21	-14
2010	-21	-14
2025	-21	-14
2040	-21	-14
2055	-21	-14
2070	-21	-14
2085	-21	-14
2100	-22	-14
2115	-22	-14
2130	-22	-14
2145	-22	-14
2160	-22	-14
2175	-22	-14
2190	-22	-14
2205	-22	-14
2220	-22	-14
2235	-22	-14
2250	-22	-14
2265	-22	-14
2280	-22	-14
2295	-22	-14
2310	-22	-14
2325	-22	-14
2340	-22	-14
2355	-23	-14
2370	-22	-14
2385	-22	-14
2400	-22	-14
2415	-22	-14
2430	-22	-14
2445	-22	-14
2460	-22	-14
2475	-22	-14
2490	-22	-14
2505	-22	-14
2520	-22	-15
2535	-22	-15
2550	-22	-15
2565	-22	-15
2580	-22	-15
2595	-22	-15
2610	-22	-15
2625	-22	-15
2640	-22	-15
2655	-21	-15
2670	-21	-15
2685	-21	-15
2700	-21	-15
2715	-21	-15
2730	-21	-15
2745	-21	-15
2760	-21	-15
2775	-21	-15
2790	-20	-15
2805	-20	-15
2820	-20	-15

Freq. (MHz)	Input VSWR (dBRL)	Output VSWR (dBRL)
2835	-20	-15
2850	-20	-15
2865	-19	-15
2880	-19	-15
2895	-19	-15
2910	-19	-15
2925	-19	-15
2940	-19	-15
2955	-18	-15
2970	-18	-15
2985	-18	-15
3000	-18	-15



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# MITEQ AM-1634 SERIES AMPLIFIER

Freq. (MHz)	Reverse Isolation (dB)
0.3	-85
15	-83
30	-82
45	-81
60	-81
75	-80
90	-80
105	-80
120	-79
135	-80
150	-80
165	-80
180	-80
195	-80
210	-80
225	-80
240	-80
255	-80
270	-80
285	-80
300	-80
315	-80
330	-80
345	-80
360	-80
375	-80
390	-80
405	-81
420	-81
435	-81
450	-81
465	-81
480	-81
495	-81
510	-81
525	-81
540	-81
555	-81
570	-81
585	-81
600	-81
615	-81
630	-81
645	-81
660	-82
675	-81
690	-81
705	-81
720	-82
735	-81
750	-82
765	-82
780	-82
795	-82
810	-82
825	-82

Freq. (MHz)	Reverse Isolation (dB)
840	-82
855	-82
870	-82
885	-81
900	-81
915	-81
930	-81
945	-82
960	-82
975	-82
990	-82
1005	-82
1020	-82
1035	-82
1050	-83
1065	-82
1080	-82
1095	-82
1110	-82
1125	-82
1140	-83
1155	-82
1170	-83
1185	-82
1200	-82
1215	-83
1230	-83
1245	-83
1260	-83
1275	-83
1290	-83
1305	-83
1320	-83
1335	-83
1350	-83
1365	-83
1380	-83
1395	-83
1410	-83
1425	-82
1440	-82
1455	-82
1470	-82
1485	-82
1500	-83
1515	-83
1530	-83
1545	-82
1560	-82
1575	-82
1590	-83
1605	-83
1620	-83
1635	-83
1650	-83
1665	-83

Freq. (MHz)	Reverse Isolation (dB)
1680	-83
1695	-83
1710	-83
1725	-83
1740	-83
1755	-83
1770	-82
1785	-82
1800	-83
1815	-83
1830	-83
1845	-83
1860	-83
1875	-83
1890	-84
1905	-84
1920	-84
1935	-84
1950	-84
1965	-84
1980	-84
1995	-84
2010	-84
2025	-84
2040	-84
2055	-84
2070	-84
2085	-84
2100	-84
2115	-84
2130	-84
2145	-84
2160	-84
2175	-84
2190	-84
2205	-84
2220	-83
2235	-83
2250	-83
2265	-83
2280	-83
2295	-82
2310	-83
2325	-83
2340	-82
2355	-83
2370	-82
2385	-82
2400	-82
2415	-81
2430	-82
2445	-82
2460	-82
2475	-82
2490	-81
2505	-82

Freq. (MHz)	Reverse Isolation (dB)
2520	-81
2535	-81
2550	-81
2565	-81
2580	-81
2595	-81
2610	-81
2625	-81
2640	-81
2655	-81
2670	-81
2685	-81
2700	-81
2715	-82
2730	-81
2745	-81
2760	-81
2775	-82
2790	-81
2805	-81
2820	-81
2835	-81
2850	-80
2865	-80
2880	-80
2895	-80
2910	-80
2925	-80
2940	-80
2955	-80
2970	-80
2985	-79
3000	-79



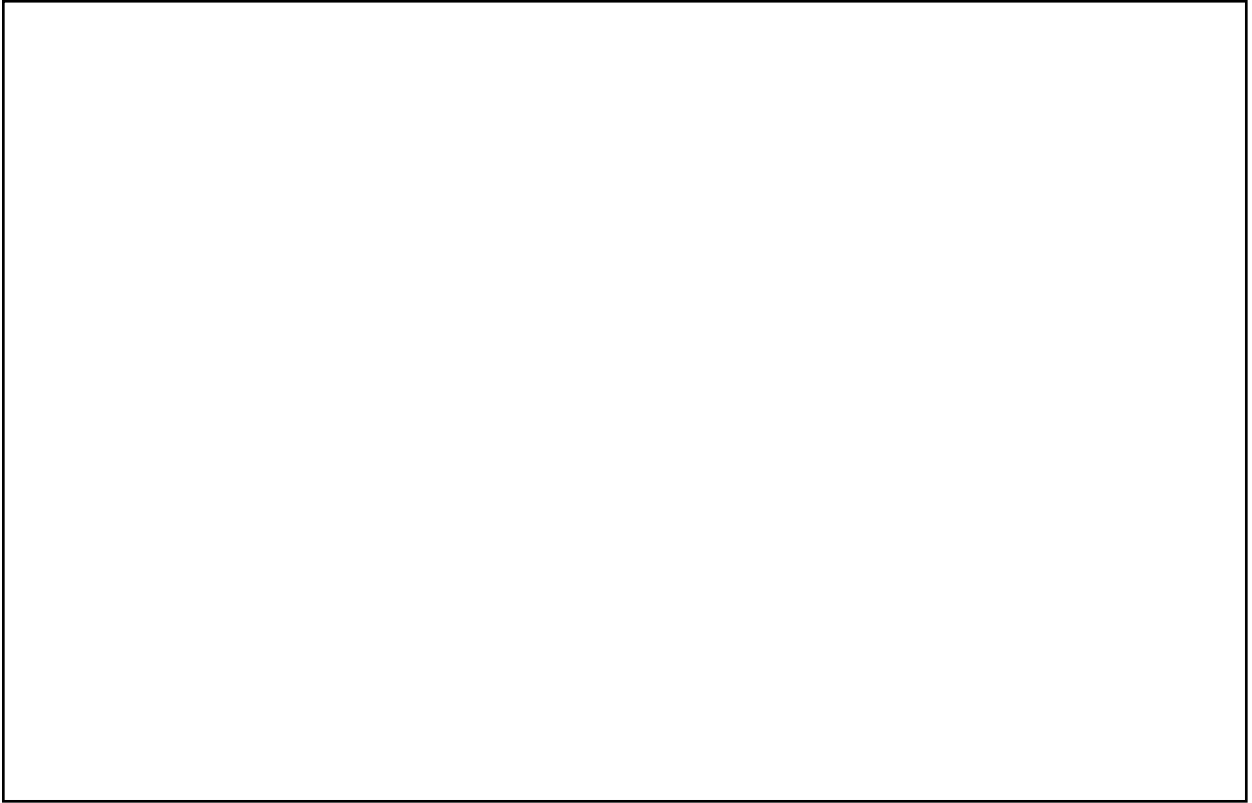
# MITEQ AM-1634 SERIES AMPLIFIER

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

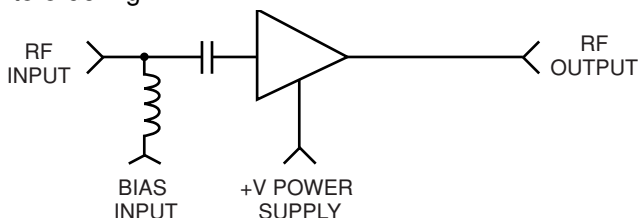
#### Add Suffix “-1306/E” or “-1306/D”

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



## 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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