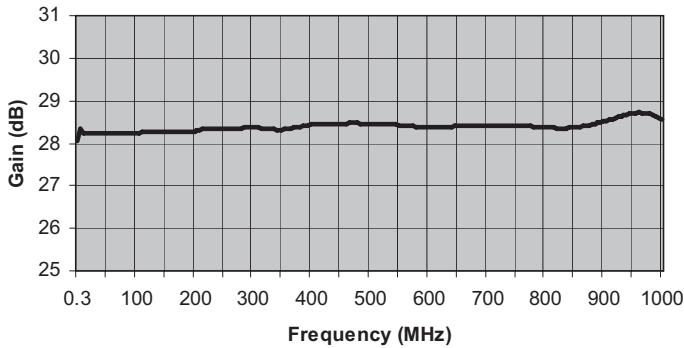


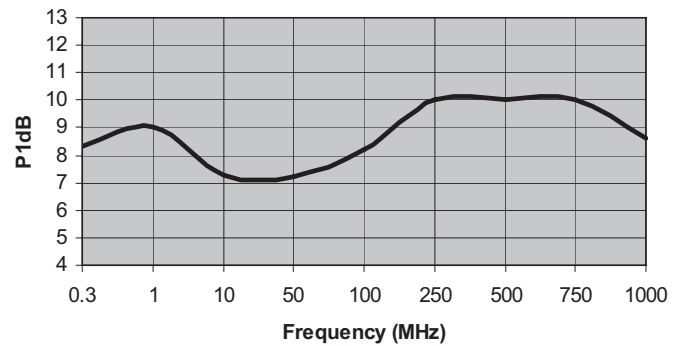
MITEQ AM-2A-000110 AMPLIFIER

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.)	VOLTS	NOM. DC POWER (mA)	OUTLINE NO.
1-1000	AM-2A-000110	26	0.75	2.0:1	50/50	1.6	8	15	55	2

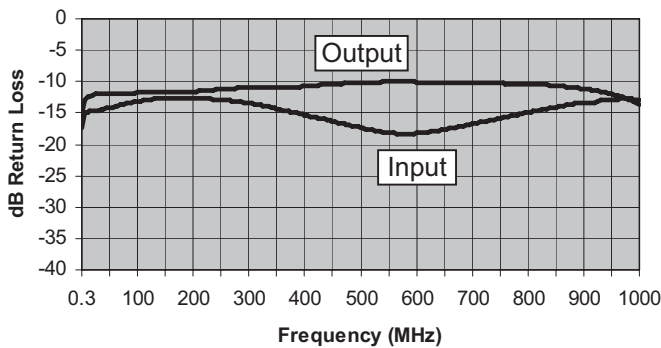
Gain (dB)



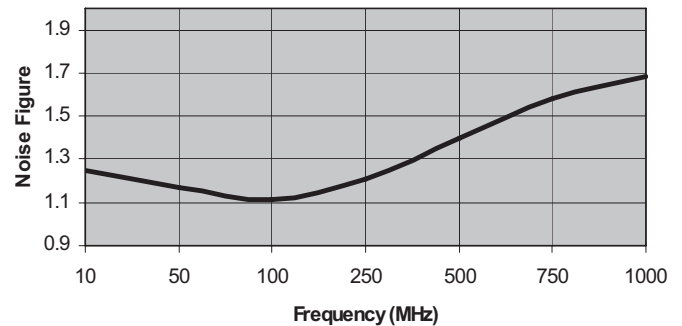
Output -1dB Gain Compression (+dBm)



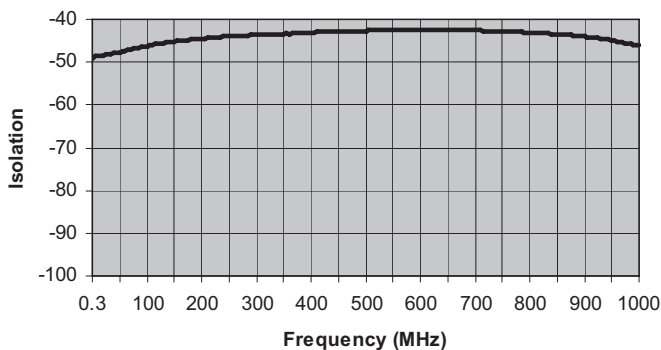
Input & Output Return Loss (dBRL)



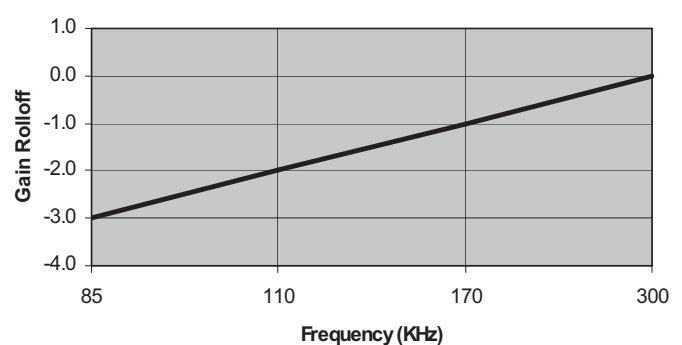
Noise Figure (dB)



Reverse Isolation (dB)



Low Frequency Gain Rolloff (dB)



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MITEQ AM-2A-000110 AMPLIFIER

Freq. (MHz)	Gain (dB)
0.3	28.0
5	28.3
10	28.2
15	28.3
20	28.2
25	28.2
30	28.2
35	28.2
40	28.2
45	28.2
50	28.2
55	28.2
60	28.2
65	28.2
70	28.2
75	28.2
80	28.2
85	28.2
90	28.2
95	28.2
100	28.2
105	28.2
110	28.3
115	28.3
120	28.3
125	28.3
130	28.3
135	28.3
140	28.3
145	28.3
150	28.3
155	28.3
160	28.3
165	28.3
170	28.3
175	28.3
180	28.3
185	28.3
190	28.3
195	28.3
200	28.3
205	28.3
210	28.3
215	28.3
220	28.3
225	28.3
230	28.3
235	28.4
240	28.4
245	28.4
250	28.4
255	28.3
260	28.4
265	28.4
270	28.4
275	28.4
280	28.4

Freq. (MHz)	Gain (dB)
285	28.4
290	28.4
295	28.4
300	28.4
305	28.4
310	28.4
315	28.4
320	28.3
325	28.3
330	28.3
335	28.3
340	28.3
345	28.3
350	28.3
355	28.3
360	28.3
365	28.3
370	28.4
375	28.4
380	28.4
385	28.4
390	28.4
395	28.4
400	28.4
405	28.4
410	28.5
415	28.5
420	28.5
425	28.5
430	28.5
435	28.5
440	28.5
445	28.5
450	28.5
455	28.5
460	28.5
465	28.5
470	28.5
475	28.5
480	28.5
485	28.5
490	28.5
495	28.5
500	28.5
505	28.5
510	28.5
515	28.5
520	28.5
525	28.4
530	28.4
535	28.4
540	28.4
545	28.4
550	28.4
555	28.4
560	28.4
565	28.4

Freq. (MHz)	Gain (dB)
570	28.4
575	28.4
580	28.4
585	28.4
590	28.4
595	28.4
600	28.4
605	28.4
610	28.4
615	28.4
620	28.4
625	28.4
630	28.4
635	28.4
640	28.4
645	28.4
650	28.4
655	28.4
660	28.4
665	28.4
670	28.4
675	28.4
680	28.4
685	28.4
690	28.4
695	28.4
700	28.4
705	28.4
710	28.4
715	28.4
720	28.4
725	28.4
730	28.4
735	28.4
740	28.4
745	28.4
750	28.4
755	28.4
760	28.4
765	28.4
770	28.4
775	28.4
780	28.4
785	28.4
790	28.4
795	28.4
800	28.4
805	28.4
810	28.4
815	28.4
820	28.4
825	28.4
830	28.4
835	28.4
840	28.4
845	28.4
850	28.4

Freq. (MHz)	Gain (dB)
855	28.4
860	28.4
865	28.4
870	28.4
875	28.4
880	28.4
885	28.5
890	28.5
895	28.5
900	28.5
905	28.5
910	28.5
915	28.6
920	28.6
925	28.6
930	28.6
935	28.7
940	28.7
945	28.7
950	28.7
955	28.7
960	28.7
965	28.7
970	28.7
975	28.7
980	28.7
985	28.7
990	28.6
995	28.6
1000	28.5



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MITEQ AM-2A-000110 AMPLIFIER

Freq. (MHz)	Input VSWR (dBRL)	Ourput VSWR (dBRL)
0.3	-17	-15
5	-15	-13
10	-15	-13
15	-15	-12
20	-15	-12
25	-15	-12
30	-15	-12
35	-14	-12
40	-14	-12
45	-14	-12
50	-14	-12
55	-14	-12
60	-14	-12
65	-14	-12
70	-14	-12
75	-14	-12
80	-14	-12
85	-13	-12
90	-13	-12
95	-13	-12
100	-13	-12
105	-13	-12
110	-13	-12
115	-13	-12
120	-13	-12
125	-13	-12
130	-13	-12
135	-13	-12
140	-13	-12
145	-13	-12
150	-13	-12
155	-13	-12
160	-13	-12
165	-13	-12
170	-13	-12
175	-13	-12
180	-13	-12
185	-13	-12
190	-13	-12
195	-13	-12
200	-13	-12
205	-13	-12
210	-13	-12
215	-13	-11
220	-13	-11
225	-13	-11
230	-13	-11
235	-13	-11
240	-13	-11
245	-13	-11
250	-13	-11
255	-13	-11
260	-13	-11
265	-13	-11
270	-13	-11
275	-13	-11

Freq. (MHz)	Input VSWR (dBRL)	Ourput VSWR (dBRL)
280	-13	-11
285	-13	-11
290	-13	-11
295	-13	-11
300	-13	-11
305	-14	-11
310	-14	-11
315	-14	-11
320	-14	-11
325	-14	-11
330	-14	-11
335	-14	-11
340	-14	-11
345	-14	-11
350	-14	-11
355	-14	-11
360	-15	-11
365	-15	-11
370	-15	-11
375	-15	-11
380	-15	-11
385	-15	-11
390	-15	-11
395	-15	-11
400	-15	-11
405	-15	-11
410	-16	-11
415	-16	-11
420	-16	-11
425	-16	-11
430	-16	-11
435	-16	-10
440	-16	-10
445	-16	-10
450	-16	-10
455	-16	-10
460	-17	-10
465	-17	-10
470	-17	-10
475	-17	-10
480	-17	-10
485	-17	-10
490	-17	-10
495	-17	-10
500	-17	-10
505	-17	-10
510	-18	-10
515	-18	-10
520	-18	-10
525	-18	-10
530	-18	-10
535	-18	-10
540	-18	-10
545	-18	-10
550	-18	-10
555	-18	-10

Freq. (MHz)	Input VSWR (dBRL)	Ourput VSWR (dBRL)
560	-18	-10
565	-18	-10
570	-18	-10
575	-18	-10
580	-18	-10
585	-18	-10
590	-18	-10
595	-18	-10
600	-18	-10
605	-18	-10
610	-18	-10
615	-18	-10
620	-18	-10
625	-18	-10
630	-18	-10
635	-18	-10
640	-18	-10
645	-18	-10
650	-18	-10
655	-18	-10
660	-17	-10
665	-17	-10
670	-17	-10
675	-17	-10
680	-17	-10
685	-17	-10
690	-17	-10
695	-17	-10
700	-17	-10
705	-17	-10
710	-17	-10
715	-17	-10
720	-16	-10
725	-16	-10
730	-16	-10
735	-16	-10
740	-16	-10
745	-16	-10
750	-16	-10
755	-16	-10
760	-16	-10
765	-16	-10
770	-16	-10
775	-15	-10
780	-15	-10
785	-15	-10
790	-15	-10
795	-15	-10
800	-15	-10
805	-15	-10
810	-15	-10
815	-15	-10
820	-15	-10
825	-14	-11
830	-14	-11
835	-14	-11

Freq. (MHz)	Input VSWR (dBRL)	Ourput VSWR (dBRL)
840	-14	-11
845	-14	-11
850	-14	-11
855	-14	-11
860	-14	-11
865	-14	-11
870	-14	-11
875	-14	-11
880	-14	-11
885	-13	-11
890	-13	-11
895	-13	-11
900	-13	-11
905	-13	-11
910	-13	-11
915	-13	-11
920	-13	-11
925	-13	-12
930	-13	-12
935	-13	-12
940	-13	-12
945	-13	-12
950	-13	-12
955	-13	-12
960	-13	-12
965	-13	-12
970	-13	-13
975	-13	-13
980	-13	-13
985	-13	-13
990	-13	-13
995	-13	-13
1000	-13	-14



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MITEQ AM-2A-000110 AMPLIFIER

Freq. (MHz)	Reverse Isolation (dB)
0.3	-49
5	-49
10	-49
15	-48
20	-48
25	-48
30	-48
35	-48
40	-48
45	-48
50	-48
55	-48
60	-47
65	-47
70	-47
75	-47
80	-47
85	-47
90	-47
95	-46
100	-46
105	-46
110	-46
115	-46
120	-46
125	-46
130	-46
135	-45
140	-45
145	-45
150	-45
155	-45
160	-45
165	-45
170	-45
175	-45
180	-45
185	-45
190	-45
195	-45
200	-45
205	-44
210	-44
215	-44
220	-44
225	-44
230	-44
235	-44
240	-44
245	-44
250	-44
255	-44
260	-44
265	-44
270	-44
275	-44

Freq. (MHz)	Reverse Isolation (dB)
280	-44
285	-44
290	-44
295	-44
300	-44
305	-44
310	-44
315	-44
320	-44
325	-44
330	-43
335	-43
340	-43
345	-43
350	-43
355	-43
360	-43
365	-43
370	-43
375	-43
380	-43
385	-43
390	-43
395	-43
400	-43
405	-43
410	-43
415	-43
420	-43
425	-43
430	-43
435	-43
440	-43
445	-43
450	-43
455	-43
460	-43
465	-43
470	-43
475	-43
480	-43
485	-43
490	-43
495	-43
500	-43
505	-43
510	-43
515	-43
520	-43
525	-43
530	-43
535	-43
540	-43
545	-43
550	-43
555	-43

Freq. (MHz)	Reverse Isolation (dB)
560	-43
565	-43
570	-43
575	-43
580	-43
585	-43
590	-43
595	-43
600	-43
605	-43
610	-43
615	-43
620	-43
625	-43
630	-43
635	-43
640	-43
645	-43
650	-43
655	-43
660	-43
665	-43
670	-43
675	-43
680	-43
685	-43
690	-43
695	-43
700	-43
705	-43
710	-43
715	-43
720	-43
725	-43
730	-43
735	-43
740	-43
745	-43
750	-43
755	-43
760	-43
765	-43
770	-43
775	-43
780	-43
785	-43
790	-43
795	-43
800	-43
805	-43
810	-43
815	-43
820	-43
825	-43
830	-43
835	-43

Freq. (MHz)	Reverse Isolation (dB)
840	-43
845	-43
850	-44
855	-44
860	-44
865	-44
870	-44
875	-44
880	-44
885	-44
890	-44
895	-44
900	-44
905	-44
910	-44
915	-44
920	-44
925	-44
930	-44
935	-45
940	-45
945	-45
950	-45
955	-45
960	-45
965	-45
970	-45
975	-46
980	-46
985	-46
990	-46
995	-46
1000	-46

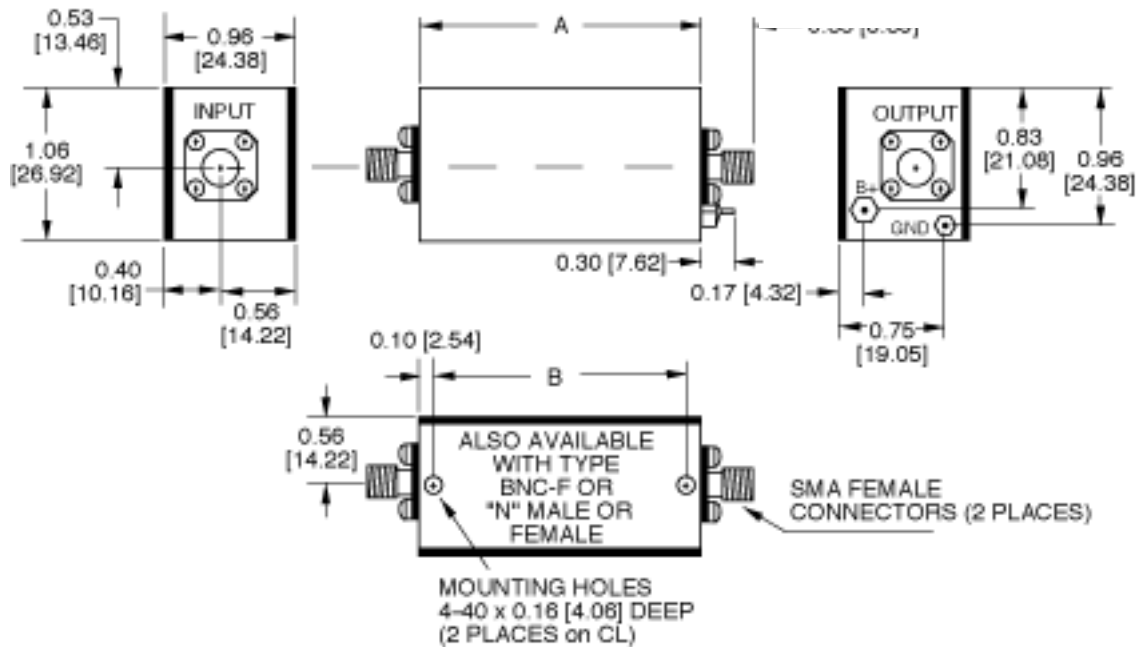


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MITEQ AM-2A-000110 AMPLIFIER

OUTLINE 2

OUTLINE	DIM A	DIM B	OUNCES
2	1.92 [48.77]	1.72 [43.69]	2.2



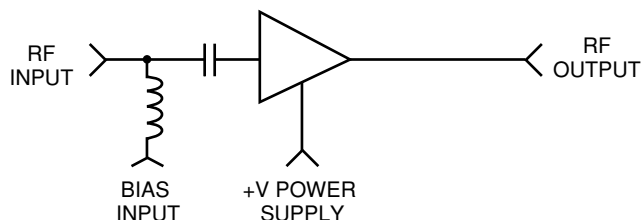
NOTE: DIMENSIONS ARE IN INCHES [MILLIMETERS].

OPTIONS FOR BIPOLAR AMPLIFIERS

INPUT BIAS TEE

Add Suffix "-F"

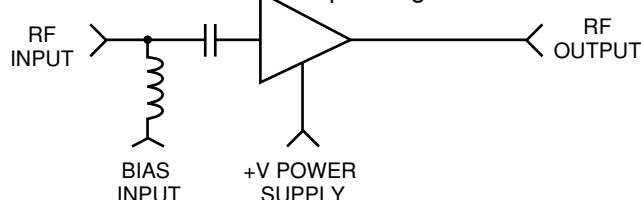
Used to inject bias signal to photo diode or other type of device. Check for availability on your model before ordering. Available on most units operating above 1 MHz. Please contact MITEQ with your custom requirements.



BIAS THROUGH THE OUTPUT CONNECTOR

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

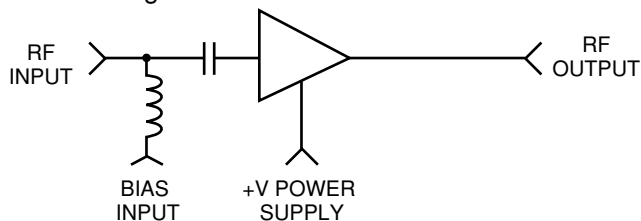
Used to supply operating power when the amplifier is remotely located while eliminating the need to run a separate DC line. Specify whether existing power pin should be "Enabled" or "Disabled." To order, add -1306/E or -1306/D after model number. Example: AU-2A-0150-1306/E will have existing +15 V pin 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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