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**Recommended Analog Devices  
Military Grade Part Cross-Reference**

## **Recommended Analog Devices Military Grade Part Cross-Reference**

This cross-reference guide lists the recommended Analog Devices military grade replacement for products manufactured by AMD, Burr-Brown, Elantec, Motorola, and Philips. This guide covers 'direct replacement' products from Analog Devices and those with minor specification differences. This guide also lists the complete manufacturer's model number and generic functional description.

Analog Devices has been committed to supporting our military and aerospace customers for three decades, and we plan to continue and enhance our support long into the future. While other suppliers have abandoned this market, we have expanded our military offerings and broadened our product portfolio to span the entire signal chain -- from precision sensors, signal conditioners, and data converters to microprocessor interface solutions and digital signal processors.

We are committed to continued leadership in meeting the unique demands and challenges of signal processing and, most importantly, our customers.

The best way to avoid the problems associated with finding replacements for discontinued military products is to design-in parts from ***Analog Devices - the leader in military IC signal processing.***

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| <u>MFR</u>         | <u>MFR PN</u> | <u>FUNCTION</u> | <u>RECOMMENDED ADI<br/>MILITARY GRADE PART</u> | <u>COMMENTS</u>        |
|--------------------|---------------|-----------------|--|------------------------|
| <b>AMD:</b>        |               |                 |  |                        |
|                    | AM6685/BEA    | Comp            | 8600804EA<br>AD96685TQ/883B                    | Direct Replacement     |
|                    | AM6685/BIA    | Comp            | 8600804IA<br>AD96685TH/883B                    | Direct Replacement     |
|                    | AM6685/BIC    | Comp            | 8600804IA<br>AD96685TH/883B                    | Direct Replacement     |
|                    | AM6685XM      | Comp            | 86008042A<br>AD96685TE/883B                    | Slight spec difference |
|                    | AM6687/BEA    | Comp            | 7801903EA<br>AD96687TQ/883B                    | Direct Replacement     |
|                    | AM685XL       | Comp            | 86008042A<br>AD96685TE/883B                    | Direct Replacement     |
|                    | AM685XM       | Comp            | 86008042A<br>AD96685TE/883B                    | Direct Replacement     |
|                    | AM687/BEA     | Comp            | 7801903EA<br>AD96687TQ/883B                    | Direct Replacement     |
|                    | AM687A/BEA    | Comp            | 7801903EA<br>AD96687TQ/883B                    | Direct Replacement     |
|                    | AM687A/LMC    | Comp            | 78019032A<br>AD96687TE/883B                    | Direct Replacement     |
|                    | AM687ALMB     | Comp            | 78019032A<br>AD96687TE/883B                    | Slight spec difference |
|                    | AM687AXM      | Comp            | 78019032A<br>AD96687TE/883B                    | Slight spec difference |
|                    | AM687LMB      | Comp            | 78019032A<br>AD96687TE/883B                    | Direct Replacement     |
|                    | AM687XM       | Comp            | 78019032A<br>AD96687TE/883B                    | Direct Replacement     |
| <b>Burr-Brown:</b> |               |                 |  |                        |
|                    | 3550L         | Op Amp          | 5962-8851301GA<br>OP42AJ/883C                  | Slight spec difference |
|                    | 3551S         | Op Amp          | 5962-9098001MXA<br>AD843SH/883B                | Slight spec difference |
|                    | AD532SD/883B  | Op Amp          | AD532SD/883B                                   | Direct Replacement     |
|                    | AD532SH/883B  | Op Amp          | AD532SH/883B                                   | Direct Replacement     |
|                    | AD534SD/883B  | Op Amp          | AD534SD/883B                                   | Direct Replacement     |
|                    | AD534SH/883B  | Op Amp          | AD534SH/883B                                   | Direct Replacement     |
|                    | AD534TD/883B  | Op Amp          | AD534TD/883B                                   | Direct Replacement     |
|                    | AD534TH/883B  | Op Amp          | AD534TH/883B                                   | Direct Replacement     |

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|--------------------------------|----------------|-----------------|---|--------------------|
| <b>Burr-Brown (continued):</b> |                |                 |   |                    |
|                                | AD632SD        | Multiplier      | AD632SD/883B  | Direct Replacement |
|                                | AD632SD/883B   | Multiplier      | AD632SD/883B  | Direct Replacement |
|                                | AD632SH        | Multiplier      | AD632SH/883B  | Direct Replacement |
|                                | AD632SH/883B   | Multiplier      | AD632SH/883B  | Direct Replacement |
|                                | AD632TD        | Multiplier      | AD632TD/883B  | Direct Replacement |
|                                | AD632TD/883B   | Multiplier      | AD632TD/883B  | Direct Replacement |
|                                | AD632TH        | Multiplier      | AD632TH/883B  | Direct Replacement |
|                                | AD632TH/883B   | Multiplier      | AD632TH/883B  | Direct Replacement |
|                                | ADC574ASH      | ADC             | AD574ASD/883B                                       | Direct Replacement |
|                                | ADC574ATD/883B | ADC             | 5962-8512702XA<br>AD574ATD/883B                     | Direct Replacement |
|                                | ADC574ATH      | ADC             | 5962-8512702XA<br>AD574ATD/883B<br>JM38510/14002BXA | Direct Replacement |
|                                | ADC674ASD/883B | ADC             | 5962-9169003MXA<br>AD674BTD/883B                    | Direct Replacement |
|                                | ADC674ASH      | ADC             | 5962-9169003MXA<br>AD674BTD/883B                    | Direct Replacement |
|                                | ADC674ATD/883B | ADC             | 5962-9169003MXA<br>AD674BTD/883B                    | Direct Replacement |
|                                | ADC674ATH      | ADC             | 5962-9169003MXA<br>AD674BTD/883B                    | Direct Replacement |
|                                | DAC7541ASH-BI  | DAC             | 5962-8948101VX<br>AD7541ASQ/883B                    | Direct Replacement |
|                                | DAC7541ATH-BI  | DAC             | 5962-8948102VX<br>AD7541ATQ/883B                    | Direct Replacement |
|                                | DAC87HCBI-V    | DAC             | ADDAC87CBI-V/883B                                   | Direct Replacement |
|                                | DAC87HCBI-V-BI | DAC             | ADDAC87CBI-V/883B                                   | Direct Replacement |
|                                | DAC87HCBI-V/QM | DAC             | ADDAC87CBI-V/883B                                   | Direct Replacement |
|                                | MPY100SG       | Multiplier      | AD632TD/883B  | Direct Replacement |
|                                | MPY100SM       | Multiplier      | AD632TH/883B  | Direct Replacement |
|                                | MPY534SD       | Multiplier      | AD534SD/883B<br>JM38510/13902BCA                    | Direct Replacement |
|                                | MPY534SH       | Multiplier      | AD534SH/883B<br>JM38510/13902BIA                    | Direct Replacement |

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|--------------------------------|---------------|-----------------|--|------------------------|
| <b>Burr-Brown (continued):</b> |               |                 |  |                        |
|                                | MPY534TD      | Multiplier      | AD534TD/883B<br>JM38510/13901BCA               | Direct Replacement     |
|                                | MPY534TH      | Multiplier      | AD534TH/883B<br>JM38510/13901BIA               | Direct Replacement     |
|                                | OP27AJ        | Op Amp          | JM38510/13503BGA<br>OP27AJ/883C                | Direct Replacement     |
|                                | OP27AZ        | Op Amp          | JM38510/13503BPA<br>OP27AZ/883C                | Direct Replacement     |
|                                | OP27BJ        | Op Amp          | OP27BJ/883C                                    | Direct Replacement     |
|                                | OP37AJ        | Op Amp          | 5962-8853701GA<br>OP37AJ/883C                  | Direct Replacement     |
|                                | OP37AZ        | Op Amp          | 5962-8853701PA<br>OP37AZ/883C                  | Direct Replacement     |
|                                | OP37BZ        | Op Amp          | 5962-8853702PA<br>OP37BZ/883C                  | Direct Replacement     |
|                                | OPA111SM      | Op Amp          | AD645SH/883B                                   | Slight spec difference |
|                                | OPA128SM      | Op Amp          | AD549SH/883B                                   | Slight spec difference |
|                                | OPA156AM      | Op Amp          | 5962-8954201GA<br>OP15AJ/883C                  | Slight spec difference |
|                                | OPA2111SM     | Op Amp          | AD648TH/883B                                   | Slight spec difference |
|                                | OPA404SG      | Op Amp          | 5962-9063301MCA<br>AD713SQ/883B                | SS- cer, ADI- sbrazed  |
|                                | OPA623SG      | Op Amp          | 5962-9459301MPA                                | Slight spec difference |
|                                | OPA644HS      | Op Amp          | 5962-9459301MPA                                | Slight spec difference |
|                                | REF10PB       | Volt. Ref       | REF10AJ/883C                                   | Direct Replacement     |
|                                | REF1M         | Volt. Ref       | 5962-8958101GA<br>REF01AJ/883C                 | Direct Replacement     |
|                                | REF2M         | Volt. Ref       | 8551401GA<br>REF02AJ/883C                      | Direct Replacement     |
|                                | REF5PB        | Volt. Ref       | REF05AJ/883C                                   | Direct Replacement     |
|                                | REF5UB        | Volt. Ref       | REF05BJ/883C                                   | Direct Replacement     |
|                                | VFC100SG      | VFC             | 5962-9322201MEA<br>AD652SQ/883B                | Slight spec difference |
|                                | VFC32SM       | VFC             | ADVFC32SH/883B                                 | Slight spec difference |
| <b>Comlinear:</b>              |               |                 |  |                        |
|                                | CLC200A8C     | Op Amp          | 5962-8991101<br>AD9610TH/883B                  | Slight spec difference |

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|-------------------------------|----------------|-----------------|--|------------------------|
| <b>Comlinear (continued):</b> |                |                 |  |                        |
|                               | CLC201A8C      | Op Amp          | 5962-8991101<br>AD9610TH/883B                  | Slight spec difference |
|                               | CLC207A8C      | Op Amp          | 5962-8991101<br>AD9610TH/883B                  | Slight spec difference |
|                               | CLC400A8D      | Op Amp          | 5962-9086801MPA<br>AD9617SQ/883B               | Slight spec difference |
|                               | CLC401A8B      | Op Amp          | 5962-9086803MPA<br>AD9618SQ/883B               | Slight spec difference |
|                               | CLC401A8D      | Op Amp          | 5962-9086803MPA<br>AD9618SQ/883B               | Slight spec difference |
|                               | CLC402A8B      | Op Amp          | 5962-9086801MPA<br>AD9617SQ/883B               | Slight spec difference |
|                               | CLC402A8D      | Op Amp          | 5962-9086801MPA<br>AD9617SQ/883B               | Slight spec difference |
|                               | CLC406A8D      | Op Amp          | 5962-9459301MPA                                | Slight spec difference |
|                               | CLC409A8D      | Op Amp          | 5962-9459301MPA                                | Slight spec difference |
|                               | CLC410A8B      | Op Amp          | 5962-9313201MPA                                | Slight spec difference |
|                               | CLC410A8D      | Op Amp          | 5962-9313201MPA                                | Slight spec difference |
|                               | CLC430A8B      | Op Amp          | 5962-9313201MPA                                | Slight spec difference |
|                               | CLC430AIB      | Op Amp          | 5962-9313201MPA                                | Slight spec difference |
|                               | CLC430AID      | Op Amp          | 5962-9313201MPA                                | Slight spec difference |
| <b>Elantec:</b>               |                |                 |  |                        |
|                               | EHA12539 /883B | Op Amp          | AD5539SQ/883B                                  | Slight spec difference |
|                               | EHA12539-2     | Op Amp          | AD5539SQ/883B                                  | Slight spec difference |
|                               | EHA12540 /883B | Op Amp          | 5962-8964001CA<br>AD840SQ/883B                 | Direct Replacement     |
|                               | EHA12540-2     | Op Amp          | 5962-8964001CA<br>AD840SQ/883B                 | Direct Replacement     |
|                               | EHA15190 /883B | Op Amp          | 5962-8964201CA<br>AD842SQ/883B                 | Direct Replacement     |
|                               | EHA15190-2     | Op Amp          | 5962-8964201CA<br>AD842SQ/883B                 | Direct Replacement     |
|                               | EHA22500 /883B | Op Amp          | AD744TH/883B                                   | Slight spec difference |
|                               | EHA22500-2     | Op Amp          | AD744TH/883B                                   | Slight spec difference |
|                               | EHA22600 /883B | Op Amp          | AD711SQ/883B                                   | Slight spec difference |
|                               | EHA25190 /883B | Op Amp          | 5962-8964201XA                                 | Direct Replacement     |

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|-----------------------------|----------------|-----------------|--|------------------------|
| <b>Elantec (continued):</b> |                |                 |  |                        |
|                             | EHA25190-2     | Op Amp          | 5962-8964201XA                                 | Direct Replacement     |
|                             | EHA42540 /883B | Op Amp          | 5962-89640012A<br>AD840SE/883B                 | Direct Replacement     |
|                             | EHA45190 /883B | Op Amp          | 5962-89642012A<br>AD842SE/883B                 | Direct Replacement     |
|                             | EHA72600 /883B | Op Amp          | AD711SQ/883B                                   | Slight spec difference |
|                             | EHA72600-2     | Op Amp          | AD711SQ/883B                                   | Slight spec difference |
|                             | EHA72602 /883B | Op Amp          | AD711SQ/883B                                   | Slight spec difference |
|                             | EHA72602-2     | Op Amp          | AD711SQ/883B                                   | Slight spec difference |
|                             | EL2020J        | Op Amp          | 5962-9313201MPA                                | Direct Replacement     |
|                             | EL2020J/883B   | Op Amp          | 5962-9313201MPA                                | Direct Replacement     |
|                             | EL2028J        | Op Amp          | 5962-8964101CA<br>AD841SQ/883B                 | Direct Replacement     |
|                             | EL2028J/883B   | Op Amp          | 5962-8964101CA<br>AD841SQ/883B                 | Direct Replacement     |
|                             | EL2030J        | Op Amp          | 5962-9313101MPA<br>AD811SQ/883B                | Slight spec difference |
|                             | EL2030J/883B   | Op Amp          | 5962-9313101MPA<br>AD811SQ/883B                | Slight spec difference |
|                             | EL2039J        | Op Amp          | AD5539SQ/883B                                  | Slight spec difference |
|                             | EL2039J/883B   | Op Amp          | AD5539SQ/883B                                  | Slight spec difference |
|                             | EL2040J        | Op Amp          | 5962-8964001CA<br>AD840SQ/883B                 | Direct Replacement     |
|                             | EL2040J/883B   | Op Amp          | 5962-8964001CA<br>AD840SQ/883B                 | Direct Replacement     |
|                             | EL2040L/883B   | Op Amp          | 5962-89640012A<br>AD840SE/883B                 | Direct Replacement     |
|                             | EL2041G        | Op Amp          | AD841SH/883B                                   | Direct Replacement     |
|                             | EL2041G/883B   | Op Amp          | AD841SH/883B                                   | Direct Replacement     |
|                             | EL2041J        | Op Amp          | 5962-8964101CA<br>AD841SQ/883B                 | Direct Replacement     |
|                             | EL2041J/883B   | Op Amp          | 5962-8964101CA<br>AD841SQ/883B                 | Direct Replacement     |
|                             | EL2071J/883B   | Op Amp          | 5962-9313101MPA<br>AD811SQ/883B                | Slight spec difference |
|                             | EL2171J/883B   | Op Amp          | 5962-9086803MPA<br>AD9618SQ/883B               | Slight spec difference |
|                             | EL2190G        | Op Amp          | 5962-8964201XA                                 | Direct Replacement     |

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|-----------------------------|---------------|-----------------|--|------------------------|
| <b>Elantec (continued):</b> |               |                 |  |                        |
|                             | EL2190G/883B  | Op Amp          | 5962-8964201XA                                 | Direct Replacement     |
|                             | EL2190J       | Op Amp          | 5962-8964201CA<br>AD842SQ/883B                 | Direct Replacement     |
|                             | EL2190J/883B  | Op Amp          | 5962-8964201CA<br>AD842SQ/883B                 | Direct Replacement     |
|                             | EL2190L/883B  | Op Amp          | 5962-89642012A<br>AD842SE/883B                 | Direct Replacement     |
|                             | EL2195CG      | Op Amp          | 5962-8964201XA                                 | Direct Replacement     |
|                             | EL2223J       | Op Amp          | 5962-9211701MPA<br>AD827SQ/883B                | Slight spec difference |
|                             | EL2223J/883B  | Op Amp          | 5962-9211701MPA<br>AD827SQ/883B                | Slight spec difference |
|                             | EL2223L/883B  | Op Amp          | 5962-9211701M2A<br>AD827SE/883B                | Slight spec difference |
|                             | EL2232J       | Op Amp          | 5962-9053601PA<br>OP260AZ/883C                 | Slight spec difference |
|                             | EL2232J/883B  | Op Amp          | OP260AZ/883C                                   | Slight spec difference |
|                             | EL400J/883B   | Op Amp          | 5962-9086801MPA<br>AD9617SQ/883B               | Slight spec difference |
|                             | ELH32G        | Op Amp          | 5962-8964201XA                                 | Slight spec difference |
|                             | ELH32G/883B   | Op Amp          | 5962-8964201XA                                 | Slight spec difference |
| <b>Motorola:</b>            |               |                 |  |                        |
|                             | LM111H        | Comp            | JM38510/10304BGA<br>PM111J/883C                | Direct Replacement     |
|                             | LM285Z1.2     | Volt. Ref       | AD589SH/883B                                   | Slight spec difference |
|                             | MC1503U       | Volt. Ref       | 5962-9060301PA<br>REF43BZ/883C                 | Direct Replacement     |
|                             | MC1504U10     | Volt. Ref       | 5962-8958101PA<br>REF01AZ/883C                 | Direct Replacement     |
|                             | MC1504U5      | Volt. Ref       | 8551401PA<br>REF02AZ/883C                      | Slight spec difference |
|                             | MC34004BL     | Op Amp          | 5962-9458101MCA                                | Direct Replacement     |
|                             | MC34004L      | Op Amp          | 5962-9458101MCA                                | Direct Replacement     |
|                             | MC35001AU     | Op Amp          | AD711SQ/883B                                   | Direct Replacement     |
|                             | MC35001BU     | Op Amp          | AD711SQ/883B                                   | Direct Replacement     |
|                             | MC35001U      | Op Amp          | AD711SQ/883B                                   | Direct Replacement     |
|                             | MC35002AU     | Op Amp          | AD712SQ/883B                                   | Direct Replacement     |

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|------------------------------|---------------|-----------------|--|------------------------|
| <b>Motorola (continued):</b> |               |                 |  |                        |
|                              | MC35002BU     | Op Amp          | AD712SQ/883B                                   | Direct Replacement     |
|                              | MC35002U      | Op Amp          | AD712SQ/883B                                   | Direct Replacement     |
|                              | MC35081AU     | Op Amp          | AD711TQ/883B                                   | Slight spec difference |
|                              | MC35081U      | Op Amp          | AD711SQ/883B                                   | Slight spec difference |
|                              | MC35082AL     | Op Amp          | AD712TQ/883B                                   | Slight spec difference |
|                              | MC35082L      | Op Amp          | AD712SQ/883B                                   | Slight spec difference |
|                              | MC35174U      | Op Amp          | 5962-9458101MCA                                | Slight spec difference |
|                              | MC35184L      | Op Amp          | 5962-9458101MCA                                | Slight spec difference |
|                              | OP27AZ        | Op Amp          | JM38510/13503BPA<br>OP27AZ/883C                | Direct Replacement     |
|                              | TL64MJG       | Op Amp          | 5962-9458101MCA                                | Direct Replacement     |
|                              | TL71MJG       | Op Amp          | AD711SQ/883B                                   | Direct Replacement     |
|                              | TL72MJG       | Op Amp          | AD712SQ/883B                                   | Direct Replacement     |
|                              | TL74MJG       | Op Amp          | 5962-9063301MCA<br>AD713SQ/883B                | Direct Replacement     |
|                              | TL81MJG       | Op Amp          | AD711SQ/883B                                   | Direct Replacement     |
|                              | TL82MJG       | Op Amp          | AD712SQ/883B                                   | Direct Replacement     |
|                              | TL84MJG       | Op Amp          | 5962-9063301MCA<br>AD713SQ/883B                | Direct Replacement     |
| <b>Philips:</b>              |               |                 |  |                        |
|                              | ADC820BSEF    | ADC             | 5962-8865002RX<br>AD7820TQ/883B                | Direct Replacement     |
|                              | ADC820CSEF    | ADC             | 5962-8865001RX<br>AD7820UQ/883B                | Direct Replacement     |
|                              | AU2901D       | Comp            | 5962-8990403CA<br>CMP04BY/883C                 | Slight spec difference |
|                              | DAC8AF        | ADC             | DAC08AQ/883C<br>JM38510/11302BEA               | Direct Replacement     |
|                              | DAC8F         | ADC             | DAC08Q/883C<br>JM38510/11301BEA                | Direct Replacement     |
|                              | LM111FE       | Comp            | JM38510/10304BCA<br>PM111Y/883C                | Direct Replacement     |
|                              | LM119F        | Comp            | 8601401CA<br>PM119Y/883C                       | Direct Replacement     |

# Mouser Electronics

Authorized Distributor

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## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

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