



*National*  
*Semiconductor®*

# MIL/AERO ANALOG CROSS-REFERENCE GUIDE

# NATIONAL VS. ELANTEC

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## National to Elantec Cross-Reference Guide – Mil/Aero Analog Products

### Buffer Amplifiers

Elantec Part #	National Replacement or Military Upgrade Part #	National Description	Elantec Package	National Package	Compatible Pinout	National Advantage
EL2001J/883	CLC109AJ-QML	Low Power Wideband Buffer	8-pin Cerdip	8-pin Cerdip	No	Greater gain bandwidth
EL2001AJ/883	CLC109AJ-QML	Low Power Wideband Buffer	8-pin Cerdip	8-pin Cerdip	No	Greater gain bandwidth
EL2002AJ/883	CLC109AJ-QML	Low Power Wideband Buffer	8-pin Cerdip	8-pin Cerdip	No	Greater gain bandwidth
EL2002J/883	CLC109AJ-QML	Low Power Wideband Buffer	8-pin Cerdip	8-pin Cerdip	No	Greater gain bandwidth
EL2003J/883	LM6121J/883	High Speed Buffer	8-pin Cerdip	8-pin Cerdip	Yes	Higher peak output current
EL2003H/883	LM6121H/883	High Speed Buffer	8-pin Can	8-pin Can	Yes	Higher peak output current
EL2033J/883	LM6121J/883	High Speed Buffer	8-pin Cerdip	8-pin Cerdip	Yes	Higher peak output current
ELH0033G/883	CLC111AJ-QML	Buffer Amplifier	12-pin Can	8-pin Cerdip	No	Faster slew rate; greater gain bandwidth
ELH0002H/883	LM6121H/883	High Speed Buffer	8-pin Can	8-pin Can	Yes	Monolithic; current limiting capable
EL2072J/883	CLC110AJ-QML	Wideband Closed Loop Buffer	8-pin Cerdip	8-pin Cerdip	Yes	Exact replacement
EL2072J/883	CLC111AJ-QML	Fast Closed Loop Buffer	8-pin Cerdip	8-pin Cerdip	Yes	Exact replacement; more bandwidth

### Voltage Comparators

Elantec Part #	National Replacement or Military Upgrade Part #	National Description	Elantec Package	National Package	Compatible Pinout	National Advantage
EL2018H/883	LM106H/883	Voltage Comparator	8-pin Can	8-pin Can	Yes	Lower offset voltage
EL2019H/883	LM106H/883	Voltage Comparator	8-pin Can	8-pin Can	Yes	Lower offset voltage

### Operational Amplifiers

Elantec Part #	National Replacement or Military Upgrade Part #	National Description	Elantec Package	National Package	Compatible Pinout	National Advantage
EL2006G/883	LM6161J/883	High Speed Op Amp	12-pin can	8-pin Cerdip	No	Much lower supply current; LM6161 also available in ceramic flatpak
EL2006AG/883	LM6161J/883	High Speed Op Amp	12-pin can	8-pin Cerdip	No	Much lower supply current; LM6161 also available in ceramic flatpak
EL2020J/883	CLC430AJ-QML	Op Amp with Disable	8-pin Cerdip	8-pin Cerdip	Yes	CLC430 offers disable
EL2020L/883	CLC430AE-QML	Op Amp with Disable	20-lead LCC	20-lead LCC	Yes	CLC430 offers disable
EL2030J/883	LM6181AMJ/883	High Speed Video Op Amp	14-pin Cerdip	8-pin Cerdip	No	Guaranteed bandwidth and slew rate; smaller package
EL2030J/883	CLC404AJ-QML	Wideband Op Amp	14-pin Cerdip	8-pin Cerdip	No	Lower input noise voltage; smaller package
EL2030J/883	CLC430AJ-QML	Op Amp with Disable	14-pin Cerdip	8-pin Cerdip	No	Offers disable; faster slew rate; smaller package



## Operational Amplifiers (cont.)

Elantec Part #	National Replacement or Military Upgrade Part #	National Description	Elantec Package	National Package	Compatible Pinout	National Advantage
EL2038J/883	CLC449AJ-QML	High Speed VFB Op Amp	14-pin Cerdip	8-pin Cerdip	No	Wider gain bandwidth; smaller package
EL2039J/883	CLC440AJ-QML	High Speed VFB Op Amp	14-pin Cerdip	8-pin Cerdip	No	Wider gain bandwidth; smaller package
EL2040J/883	CLC446AJ-QML	High Speed VFB Op Amp	14-pin Cerdip	8-pin Cerdip	No	Faster slew rate; smaller package
EL2041J/883	CLC430AJ-QML	Op Amp with Disable	14-pin Cerdip	8-pin Cerdip	No	Offers disable
EL2070J/883	CLC410AJ-QML	Fast settling Video Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Exact replacement; offers disable
EL2071J/883	CLC401AJ-QML	Wideband, High Gain Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Exact replacement
EL2073J/883	CLC426AJ-QML	Low Noise Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Wider gain bandwidth
EL2073J/883	CLC440AJ-QML	Ultra Wideband Op amp	8-pin Cerdip	8-pin Cerdip	Yes	Wider gain bandwidth
EL2074J/883	CLC420AJ-QML	High Speed VFB Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Much lower supply current
EL2074J/883	CLC446AJ-QML	High Speed CFB Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Unity gain stable
EL2075J/883	CLC425AJ-QML	Ultralow Noise Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Much lower input noise voltage
EL2171J/883	CLC401AJ-QML	High Gain Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Exact replacement
EL2190J/883	LM7171AMJ-QML	High Speed Op Amp	14-pin Cerdip	8-pin Cerdip	No	Faster settling, smaller package; LM7171 also available in SOIC
EL2223J/883	CLC412AJ-QML	Dual Wideband Video Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Faster slew rate; unity gain stable
EL2223L/883	CLC412AE-QML	Dual Wideband Video Op Amp	20-lead LCC	20-lead LCC	Yes	Faster slew rate; unity gain stable
EL2224J/883	CLC428AJ-QML	Dual Wideband Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Much lower input noise voltage
EL2224J/883	LM6172AMJ-QML	Dual High Speed Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Wider gain bandwidth
EL2232J/883	CLC432AJ-QML	Dual CFB Wideband Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Lower supply current; greater gain bandwidth
EL2232L/883	CLC431AE-QML	Dual CFB Wideband Op Amp	20-lead LCC	20-lead LCC	No	Lower supply current; greater gain bandwidth
EL2242J/883	LM6142AMJ-QML	Low Power Dual Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Much lower supply current
EL2243J/883	LM6182AMJ/883	CFB Dual Op Amp	8-pin Cerdip	14-pin Cerdip	No	Faster slew rate and greater gain bandwidth
EL2260J/883	CLC412AJ-QML	CFB Dual Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Wider gain bandwidth
EL2260J/883	LM6182AMJ/883	CFB Dual Op Amp	8-pin Cerdip	14-pin Cerdip	No	Faster slew rate
EL2423J/883	CLC415AJ-QML	Quad Wideband Op Amp	14-pin Cerdip	14-pin Cerdip	Yes	Much faster settling time
EL2424J/883	CLC414AJ-QML	Quad Low Power Op Amp	14-pin Cerdip	14-pin Cerdip	Yes	Wider gain bandwidth
EL2424L/883	CLC414AE-QML	Quad Low Power Op Amp	20-pin LCC	20-pin LCC	Yes	Wider gain bandwidth
EL400J/883	CLC400AJ-QML	Wideband Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Exact replacement
EL400J/883	CLC452AJ-QML	Wideband Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	100mA of output drive current
ELH0032G/883	LM6181AMJ/883	100MHz CFB Op Amp	12-pin can	8-pin Cerdip	No	Wider bandwidth
ELH0041G/883	CLC452AJ-QML	High Output Op Amp	12-pin can	8-pin Cerdip	No	100mA of output drive current
EHA7-2500/883	LM6161J/883	High Speed Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Faster slew rate; faster settling
EHA7-2502/883	LM6161J/883	High Speed Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Faster slew rate; faster settling
EHA7-2510/883	LM6161J/883	High Speed Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Faster slew rate; faster settling
EHA7-2512/883	LM6161J/883	High Speed Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Faster slew rate; faster settling
EHA7-2520/883	LM6164J/883	High Speed Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Faster slew rate; faster settling
EHA4-2520/883	LM6164E/883	High Speed Op Amp	20-pin LCC	20-pin LCC	Yes	Faster slew rate; faster settling
EHA7-2522/883	LM6161J/883	High Speed Op Amp	8-pin Cerdip	8-pin Cerdip	Yes	Faster slew rate; faster settling