CROSS REFERENCE GUIDE

Single Operational Amplifiers

△ NEC ORIGINAL
• FUNCTIONAL EQUIVALENT

Function	NEC	FAIRCHILD	NATIONAL	MOTOROLA	TEXAS
General Purpose Operational Amplifier	μPC741C μPC741G	μA741TC	LM741CN	MC1741CP1	μA741CP
J-FET Input Low-Offset Operational Amplifier	μPC811C μPC811G		LF411N	MC34001AP MC34001AD	
J-FET Input Low-Offset Operational Amplifier	μPC813C△ μPC813G△				
Ultra Low-offset Voltage, Low Drift, Low Noise, High Slew Rate, Wideband Operational Amplifier	μPC815C△ μPC816C△	LINEAR TECHNOLOGY LT1007N8• LINEAR TECHNOLOGY LT1037N8•			
J-FET Input Low-Power Operational Amplifier	μPC4061C μPC4061G		LF441N		TL061CP
Low Noise J-FET Input Operational Amplifier	μPC4071C μPC4071G		LF351N• LF351M•	TL071CP TL071CD	TL071CP
J-FET Input Operational Amplifier	μPC4081C μPC4081G	μAF771LTC•	LF351N•	TL081CP TL081CD	TL082CP
Programmable Operational Amplifier	μPC4250C μPC4250G		LM4250CN		

Dual Operational Amplifiers

Function	NEC	FAIRCHILD	NATIONAL	MOTOROLA	TEXAS
Low Power Operational Amplifier	μPC358C μPC358G μPC358HA		LM358N LM358M	LM358N LM358D	LM358N
J-FET Input Low-Offset Operational Amplifier	μPC812C μPC812G		LF412N	MC34002AP MC34002AD	
J-FET Input Low-Offset Operational Amplifier	μPC814C△ μPC814G△				
Single Supply Voltage, High Speed, Wideband, Operational Amplifier	μPC842C△ μPC842G△			MC34072P• MC34072D•	
General Purpose Operational Amplifier	μPC1458C μPC1458G	μA1458TC	LM1458N LM1458M	MC1458CP MC1458CD	MC1458P
J-FET Input Low-Power Operational Amplifier	μPC4062C μPC4062G		LF442N		TL062CP
Low Noise J-FET Input Operational Amplifier	μPC4072C μPC4072G μPC4072HA		LF353N LF353M	TL072CP TL072D	TL072CP
J-FET Input Operational Amplifier	μPC4082C μPC4082G	μAF772LTC•	LF353N• LF353M•	TL082CP TL082D	TL082CP
High Performance Decompensated Operational Amplifier	μPC4556C△ μPC4556G△				
High Performance Operational Amplifier	μPC4558C μPC4558G	μA4558TC		MC4558CP1 MC4558CD	RC4558P
High Performance Operational Amplifier	μPC4559C	Raytheon RC4559NB			
High Performance Operational Amplifier	μPC4560C μPC4560G				
Ultra Low-Noise, Wideband Operational Amplifier	μPC4570C μPC4570G μPC4570HA				NE5532P
Low Supply Voltage Ultra Low-Noise, High Speed, Wideband, Low Is Operational Amplifier	μPC4572C△ μPC4572G△ μPC4572HA△				

Quad Operational Amplifiers

Function	NEC	FAIRCHILD	NATIONAL	MOTOROLA	TEXAS
Low Power Operational Amplifier	μPC324C μPC324G	μA324PC	LM324N LM324M	LM324N	LM324N
Single Supply Voltage, High Speed, Wide Band Operational Amplifier	μPC844C[Δ] μPC844G[Δ]			MC34074P* MC34074D*	
High Performance Operational Amplifier	μPC3403C μPC3403G	μA3403PC	LM3403N LM3403M	MC3403P MC3403D	MC3403N
J-FET Input Low-Power Operational Amplifier	μPC4064C μPC4064G		LF444N		TL064CP
Low Noise J-FET Input Operational Amplifier	μPC4074C μPC4074G		LF347N LF347F	TL074CN TL074CD	TL074CP
J-FET Input Operational Amplifier	μPC4084C	μAF774LTC*	LF347N*	TL084CN	TL084CP
Ultra Low-Noise, Wideband Operational Amplifier	μPC4574C[Δ] μPC4574G[Δ]				
High Performance Operational Amplifier	μPC4741C μPC4741G	(HARRIS HA4741-S)			

Voltage Comparators

Function	NEC	FAIRCHILD	NATIONAL	MOTOROLA	TEXAS
Precision Voltage Comparator (Single)	μPC311C μPC311G	μA311T	LM311N LM311M	LM311N LM311D	LM311JG LM311P
High Speed Comparator (Dual)	μPC319C μPC319G		LM319N		
Low Power Comparator (Quad)	μPC339C μPC339G	μA339PC	LM339N LM339M	LM339N LM339D	LM339N
Low Power Comparator (Dual)	μPC393C μPC393G μPC393HA	μA393TC	LM393N LM393M	LM393N LM393D	LM393P

Voltage Regulators - Three Terminal Positive Regulators

Function		NEC	FAIRCHILD	NATIONAL	MOTOROLA	TEXAS
0.1 A	+5 V	μPC78L05J/T	μA78L05AWC	LM78L05ACZ	MC78L05CP	μA78L05CLP
	+6 V	μPC78L06J/T				μA78L06CLP
	+7 V	μPC78L07J/T				
	+8 V	μPC78L08J/T		LM78L08ACZ	MC78L08CP	μA78L08CLP
	+10 V	μPC78L10J/T				μA78L10CLP
	+12 V	μPC78L12J/T	μA78L12AWC	LM78L12ACZ	MC78L12CP	μA78L12CLP
	+15 V	μPC78L15J/T	μA78L15AWC	LM78L15ACZ	MC78L15CP	μA78L15CLP
0.3 A	+5 V	μPC78N05H	Matsusita AN78N05			
	+8 V	μPC78N08H	Matsusita AN78N08			
	+10 V	μPC78N10H	Matsusita AN78N10			
	+12 V	μPC78N12H	Matsusita AN78N12			
	+15 V	μPC78N15H	Matsusita AN78N15			
	+18 V	μPC78N18H	Matsusita AN78N18			
	+24 V	μPC78N24H	Matsusita AN78N24			
0.5 A	+5 V	μPC78M05AHF	μA78M05UC	LM341P-5	MC78M05CT	μA78M05CKC
	+8 V	μPC78M08AHF	μA78M08UC	LM341P-8	MC78M08CT	μA78M08CKC
	+10 V	μPC78M10AHF				μA78M10CKC
	+12 V	μPC78M12AHF	μA78M12UC	LM341P-12	MC78M12CT	μA78M12CKC
	+15 V	μPC78M15AHF	μA78M15UC	LM341P-15	MC78M15CT	μA78M15CKC
	+18 V	μPC78M18AHF		LM341P-18	MC78M18CT	μA78M18CKC
	+24 V	μPC78M24AHF	μA78M24UC	LM341P-24	MC78M24CT	μA78M24CKC
1.0A	+5 V	μPC7805AHF	μA7805UC	LM340T-5	MC7805CT	μA7805CKC
	+8 V	μPC7808AHF	μA7808UC	LM340T-8	MC7808CT	μA7808CKC
	+9.3 V	μPC7893AHF				
	+12 V	μPC7812AHF	μA7812UC	LM340T-12	MC7812CT	μA7812CKC
	+15 V	μPC7815AHF	μA7815UC	LM340T-15	MC7815CT	μA7815CKC
	+18 V	μPC7818AHF	μA7818UC	LM340T-18	MC7818CT	μA7818CKC
	+24 V	μPC7824AHF	μA7824UC	LM340T-24	MC7824CT	μA7824CKC

Voltage Regulators - Three Terminal Negative Regulators

Function		NEC	FAIRCHILD	NATIONAL	MOTOROLA	TEXAS
0.1 A	−5 V	μPC79L05J		LM79L05ACZ	MC79L05CP	MC79L05CLP
	−8 V	μPC79L08J				
	−12 V	μPC79L12J		LM79L12ACZ	MC79L12CP	MC79L12CLP
	−15 V	μPC79L15J		LM79L15ACZ	MC79L15CP	MC79L15CLP
0.3 A	−5 V	μPC79N05H	Matsusita AN79N05			
	−8 V	μPC79N08H	Matsusita AN79N08			
	−12 V	μPC79N12H	Matsusita AN79N12			
	−15 V	μPC79N15H	Matsusita AN79N15			
	−18 V	μPC79N18H	Matsusita AN79N18			
	−24 V	μPC79N24H	Matsusita AN79N24			
0.5 A	−5 V	μPC79M05H/HF	μA79M05AUC	LM79M05CP	MC79M05CT	μA79M05CKC
	−8 V	μPC79M08H/HF	μA79M08AUC			μA79M08CKC
	−12 V	μPC79M12H/HF	μA79M12AUC	LM79M12CP	MC79M12CT	μA79M12CKC
	−15 V	μPC79M15H/HF	μA79M15AUC	LM79M15CP	MC79M15CT	μA79M15CKC
	−18 V	μPC79M18H/HF				
	−24 V	μPC79M24H/HF				μA79M24CKC
1.0 A	−5 V	μPC7905AHF	μA7905UC	LM320T-5	MC7905CT	μA7905CKC
	−8 V	μPC7908AHF	μA7908UC	LM320T-8	MC7908CT	μA7908CKC
	−12 V	μPC7912AHF	μA7912UC	LM320T-12	MC7912CT	μA7912CKC
	−15 V	μPC7915AHF	μA7915UC	LM320T-15	MC7915CT	μA7915CKC
	−18 V	μPC7918AHF		LM320T-18	MC7918CT	μA7918CKC
	−24 V	μPC7924AHF		LM320T-24	MC7924CT	μA7924CKC

Voltage Regulators - Three Terminal Adjustable Regulators

Function		NEC	FAIRCHILD	NATIONAL	MOTOROLA	TEXAS
1.3 to 30 Volt, Variable	1.5 A	μPC317H	μA317UC	LM317T	LM317T	LM317KC
−1.3 to −30 Volt, Variable	1.5 A	μPC337H		LM337T	LM337T	LM337KC
Adjustable Precision Shunt Regulator		μPC1093J μPC1093G		LM336		TL431LP

Voltage Regulators - Switching Regulator Control Circuits

Function	NEC	FAIRCHILD	NATIONAL	MOTOROLA	TEXAS
Switching Regulator Control Circuit	μPC494C μPC494G, GS	μA494PC		TL494IN	TL494
Switching Regulator Control Circuit for 500 kHz Operation	μPC1094C[Δ] μPC1094G[Δ] μPC1099CX[Δ] μPC1099GS[Δ] μPC1900CS[Δ] μPC1900GS[Δ] μPC1905CX[Δ] μPC1905GS[Δ] μPC1906CX[Δ] μPC1906GS[Δ]				
Dual Switching Regulator Control Circuit	μPC1100C μPC1100GS				TL1451*
Dual Switching Regulator Control Circuit	μPC1150C[Δ] μPC1150GS[Δ]				

Functional Blocks

Function	NEC	FAIRCHILD	NATIONAL	MOTOROLA	TEXAS
Precision Voltage Reference	μPC1060C μPC1060D			MC1403CP	
Precision Timer Circuit	μPC1555C μPC1555G	μA555TC	LM555CN	MC1455CP1	NE555P
CMOS Timer Circuit	μPD5555C μPD5555G	INTERSIL ICM7555CP			
Dual CMOS Timer Circuit	μPD5556C μPD5556G	INTERSIL ICM7556CP			
CMOS Analog Multiplexer	μPD5205CA[Δ] μPD5205G[Δ]				