



AHEAD OF WHAT'S POSSIBLE™

SPACE QUALIFIED PARTS LIST

January 2020

For general information on Analog Devices Space Qualified products please visit the following address.

<http://www.analog.com/aerospace>

For technical inquiries on Aerospace Engineering Models please email us at aero@analog.com

For Sales and Distribution contacts please visit the following address.

<http://www.analog.com/en/about-adi/corporate-information/sales-distribution.html>

COMMITMENT TO THE SPACE MARKET

Analog Devices' entry into the space level market occurred in August 1990 when it acquired Precision Monolithics Inc. Analog Devices' certified facilities have been supplying products for military and space applications since 1972. With the addition of Linear Technology AND Hittite Microwave our combined product portfolio, technology base and specialist resources strengthen our capability to provide innovative analog, RF, power and mixed signal solutions for next generation spacecraft.

Analog Devices space level operations located in Greensboro, North Carolina coordinates all space level V (class S) activities, including business development, manufacturing and engineering. The addition of new products is derived from our customers' needs and the ability of these products to meet MIL-PRF-38535 QML level V requirements.

Visit our web site (<http://www.analog.com/aerospace>) or call our factory contacts for the latest Class S updates as well as for radiation information on these and other products.

Analog Devices, Inc. Aerospace Product Line standard product is available in one or more of the following processes:

- ▶ MIL-PRF-38535, QML LEVEL V
- ▶ MIL-PRF-38535, QML R (LEVEL V with Radiation Qualification)
- ▶ MIL-PRF-38535, JAN S
- ▶ MIL-PRF-38535, Analog Devices, Inc.'s Aerospace Product Line Standard Product

See <http://www.analog.com/aerospace>. (Standard Space Level Products Program)

The table beginning on page 3 lists the standard product offered by Analog Device's Aerospace Product Line.

Product is also available in accordance with source control drawings. Please call factory for further information.

For further information see contact list on cover.

ANALOG DEVICES SPACE LEVEL PRODUCTS

Manufacturing Locations

Space Level Compliance	Wafer Fab	Assembly	Screening and Quality Conformance Inspection
MIL-PRF-38535 Class V Compliant QMLV Devices	<ul style="list-style-type: none"> • ADI Wilmington MA • ADI Limerick, Ireland • ADI Santa Clara Die Bank 	ADI Phils, Inc. Cavite, Philippines	ADI Phils, Inc. Cavite, Philippines
Standard Space Products (non-QMLV)	<ul style="list-style-type: none"> • ADI Wilmington MA • ADI Limerick, Ireland • ADI Santa Clara Die Bank • TSMC Taiwan 	ADI Phils, Inc. Cavite, Philippines	ADI Phils, Inc. Cavite, Philippines
Customer Specific Special Flows	<ul style="list-style-type: none"> • ADI Wilmington MA • ADI Limerick, Ireland • ADI Santa Clara Die Bank • TSMC Taiwan 	ADI Phils, Inc. Cavite, Philippines	ADI Phils, Inc. Cavite, Philippines
Class K Die Qualification Hittite Microwave Products	<ul style="list-style-type: none"> • Various Foundries 	Chelmsford, MA	Chelmsford, MA
Linear Technology Products	<ul style="list-style-type: none"> • Camas, Washington • Hillview, California 	Milpitas, CA	Milpitas, CA

The following table lists the standard product available from Analog Devices, Inc. Aerospace Product Line. Product is also available in accordance with source control drawings. Please call factory for further information.

ANALOG TO DIGITAL CONVERTERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
AD571S	10-Bit Complete ADC	S	C, D-18	
AD571SD/QMLV	5962-8680203VVA	S	D	
Space Level Die	AD571-000C	S	C	3
AD574S	12-Bit-ADC w/Microprocessor Interface	T, U	C, D-28, F-28	
AD574AUD/QMLR	5962R8512701VXA	U	D	
AD574AUF/QMLR	5962R8512701VZA	U	F	
AD574ATD/QMLR	5962R8512702VXA	T	D	
AD574ATF/QMLR	5962R8512702VZA	T	F	
Space Level Die	AD574-000C	T	C	3
Space Level Die	AD574R000C	T	C	
AD670S	8-Bit Signal Conditioning Single Supply ADC	S	C, D-20	
	AD670-703D	S	D	3
Space Level Die	AD670-000C	S	C	3
AD1671S	12-Bit 1.25 MSPS ADC	S	D-28, F-28	
	AD1671-703D	S	D	3
	AD1671-703F	S	F	3
	AD1671-713F	S	F	3
AD1672S	12-Bit 3 MSPS ADC	S	D-28, F-28	
	AD1672-703F	S	F	
	AD1672-713D	S	D	
AD6645S	14-Bit 80 MSPS ADC	A	QS-52	
AD6645ASQ/QMLR	5962R0423002VXC	A	QS-52	
AD6645ASQ/QMLL	5962L0423003VXC	A	QS-52	
AD9042S	12-Bit 41 MSPS ADC	S	D-28, F-28	
AD9042SD/QMLR	5962R0253801VXA	S	D	
AD9042SF/QMLR	5962R0253801VZA	S	F	
AD9042SF/QMLL	5962L0253802VZA	S	F	
AD9054S	8-Bit 200MSPS ADC	S	J44	
	AD9054-703J44	S	J44	2, 3
AD9246S	14-Bit 125MSPS ADC	A	F-48	
AD9246AF/QMLR	5962R1422701VXC	A	F-48	
AD9254S	14-Bit 150 MSPS ADC	S	F-52	
	AD9254R703F	S	F	2, 4
AD9283S	8-Bit 100 MSPS 3.3V ADC	T	RC	
	AD9283-703RC	T	RC	2, 3

ANALOG TO DIGITAL CONVERTERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
LTC1604	16-Bit 333 KSPS SAMPLING ADC	A	G	
	LTC1604AIG#90117	A	G	
RT2378-20	20-Bit 1MSPS SAR ADC	-	MS	
	RT2378IMS-20	-	MS	

COMPARATORS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note	
AD8561S	7nS Single Comparator	A	Q-8, L		
	AD8561AQ/QMLV	A	Q		
	AD8561AL/QMLR	A	L		
	AD8561AQ/QMLR	A	Q		
	AD8561AL/QMLL	A	L		
PM111S	Precision Voltage Comparator	X	J, Z		
	PM111SJ6	X	J		
	PM111SZ7	X	Z		
PM139S	Quad Low-Power Voltage Comparator	A, X	C, Y, M, RC		
	PM139AY/QMLR	A	Y		
	PM139AM/QMLR	A	M		
	PM139ARC/QMLR	A	RC		
	PM139AM/QMLL	A	M		
	Space Level Die	PM139-000C	X	C	3
	Space Level Die	PM139R000C	X	C	
RH1016	10nS Precision Comparator	-	DICE, W		
	05-08-5222	RH1016MW	W		
	05-08-5242	RH1016DICE	DICE		
RH119	80nS Dual High Performance Comparator	-	DICE, H, J, W		
	05-08-5026 Option 1	RH119H	H ²		
	05-08-5026 Option 2	RH119J	J ²		
	05-08-5026 Option 3	RH119W	W		
	05-08-5145	RH119DICE	DICE		
RH1011	150nS General Purpose Comparator	-	DICE, H, J8, W		
	05-08-5012 Option 1	RH1011H	H ²		
	05-08-5012 Option 2	RH1011J8	J8		
	05-08-5012 Option 3	RH1011W	W		
	05-08-5149	RH1011DICE	DICE		

DIGITAL TO ANALOG CONVERTERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
AD561S	10-Bit, Current Output	S	C, D-16	
	AD561-703D	S	D	3
Space Level Die	AD561-000C	S	C	3
AD565AS	12-Bit, Current Output, Complete High Speed DAC	S, T	C, D-24	
	AD565ASD/QMLV	S	D	
	AD565ATD/QMLV	T	D	
Space Level Die	AD565-000C	T	C	3
AD667S	12-Bit Microprocessor Compatible DAC	S	C, D-28, F-28	
	AD667-703D	S	D	3
	AD667-703F	S	F	3
	AD667-713F	S	F	3
Space Level Die	AD667-000C	S	C	3
AD768S	16-Bit 30MSPS DAC	A	F-28	
	AD768AF/QMLR	A	F-28	
AD9731S	10-Bit 170MSPS DAC	S	D-28, F-28	
	AD9731-703D	S	D	2, 3
	AD9731-713D	S	D	2, 3
	AD9731-703F	S	F	2, 3
	AD9731-713F	S	F	2, 3
DAC08S	8-Bit High Speed Multiplying DAC	A, X	C, F-16, Q, RC	
	DAC08SAQ7	A	Q	
	DAC08AF/QMLR	A	F	
	DAC08AF/QMLL	A	F	
	DAC08AQ/QMLR	A	Q	
	DAC08ARC/QMLR	A	RC	
	DAC08XF/QMLR	X	F	
	DAC08XQ/QMLR	X	Q	
	DAC08XRC/QMLR	X	RC	
Space Level Die	DAC08-000C	X	C	
Space Level Die	DAC08R000C	X	C	
DAC100S	10-Bit Current Output DAC	BC	Q	
	DAC100-703Q	BC	Q	3
	DAC100-713Q	BC	Q	3

CURRENT SENSE AMPLIFIERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
AD8210S	Bidirectional Current Shunt Monitor	A	F-10	
AD8210AF/QMLR	5962R1223301VXA	A	F	
AD8210AF/QMLL	5962L1223302VXA	A	F	
AD8212S	High Voltage Current Shunt Monitor	A	L	
AD8212AL/QMLR	5962R0924401VHA	A	L	
AD8212AL/QMLL	5962L0924402VHA	A	L	
RH6105	Micropower R-R Current Sense Amp		DICE	
	RH6105MILDICE	A	DICE	

LOGARITHMIC AMPLIFIERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
ADL5513S	4 GHz Logarithmic Amplifier	A	F-16	
ADL5513AF/QMLR	5962R1120301VXA	A	F	
AD8306S	400 MHz Demodulating Log Amp	A	F-16	
AD8306AF/QMLR	5962R9864602VXA	A	F	
AD8306AF/QMLL	5962L9864603VXA	A	F	

INSTRUMENTATION AMPLIFIERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
AD524S	Instrumentation Amplifier	S	D-16, E-20	
AD524SD/QMLR	5962R8853901VEA	S	D	
AD524SE/QMLR	5962R8853901V2A	S	E	
AMP01S	Low-Noise Precision Instrumentation Amp	A, X	C, N, D-18,TC	
AMP01AD/QMLV	5962-8863001VVA	A	D	
AMP01ATC/QMLV	5962-8863001V3A	A	TC	
AMP01D/QMLV	5962-8863003VVA	X	D	
AMP01N/QMLV	5962-8863003VKA	X	N	
AMP01TC/QMLV	5962-8863003V3A	X	TC	
Space Level Die	AMP01-000C	X	C	3
AD8229S	Low-Noise Instrumentation Amplifier	S	F-14	
AD8229AF/QMLR	5962R1420501VXA	S	F	
AD8229AF/QMLL	5962L1420502VXA	S	F	

MULTICELL BATTERY STACK MONITOR

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
RT6804-1	Radiation Tolerant Multicell Battery Monitor	-	G	
	RT6804HG-1	-	G	

MULTIPLIERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
AD534S	Internally Trimmed Precision IC Multiplier	T	C, D-14, H-10	
AD534TD/QMLV	5962-9053701VCA	T	D	
Space Level Die	AD534-000C	T	C	3

VARIABLE GAIN AMPLIFIERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
AD8367S	500 MHz, Variable Gain Amplifier	S	F-16	
	AD8367R703F	S	F	
	AD8367L703F	S	F	

OPERATIONAL AMPLIFIERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
AD648S	Dual Precision, Low Power BiFET Op Amp	S, T	H-8, Q-8	
AD648SH/QMLV	5962-9753501VGA	S	H ¹	
AD648SQ/QMLV	5962-9753501VPA	S	Q	
AD648TH/QMLV	5962-9753502VGA	T	H ¹	
AD648TQ/QMLV	5962-9753502VPA	T	Q	
AD844S	60 MHz, 2000V/μs Op Amp	S	Q-8	
AD844SQ/QMLR	5962R8964401VPA	S	Q	
AD844SQ/QMLL	5962L8964402VPA	S	Q	
AD847S	High Speed, Low Power Op Amp	S	Q-8	
	AD847-703Q	S	Q	
AD8001S	800 MHz, 50mW Current Feedback Amplifier	S	Q-8, L	
AD8001SQ/QMLR	5962R9459301VPA	S	Q	
AD8001SL/QMLR	5962R9459301VHA	S	L	
AD8001SL/QMLL	5962L9459302VHA	S	L	
AD8041S	160 MHz Rail-to-Rail Amplifier with Disable	S	C, Q-8, L	
AD8041SQ/QMLR	5962R9683902VPA	S	Q	
AD8041SL/QMLR	5962R9683902VHA	S	L	
AD8041SL/QMLL	5962L9683903VHA	S	L	
AD8041-000C	Space Level Die	S	C	

OPERATIONAL AMPLIFIERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
AD8138S	320 MHz Low Distortion Differential Amplifier	A	L	
AD8138AL/QMLR	5962R0922001VHA	A	L	
AD8138AL/QMLL	5962L0922002VHA	A	L	
AD8351S	Low Distortion Fully Differential Amplifier	A	RC	
AD8351ARC/QMLR	5962R0821801V2A	A	RC	
AD8351ARC/QMLL	5962L0821802V2A	A	RC	
AD8629S	Dual Low Offset Precision Amplifier	S	L	
	AD8629D703L	S	L	2, 4
AD8671S	Low Noise, Low Input Bias Current, Low Offset	A	L	
AD8671AL/QMLL	5962L0922301VHA	A	L	
ADA4077-2S	Dual Low Offset and Drift, High Precision Amp	A	F-10	
ADA4077-2AF/QMLR	5962R1423301VXA	A	F	
ADA4077-2AF/QMLL	5962L1423302VXA	A	F	
ADA4084-2S	Dual Low Noise, R-R I/O, Low Power Amp	A	F-10	
ADA4084-2AF/QMLR	5962R1324501VXA	A	F	
ADA4084-2AF/QMLL	5962L1324502VXA	A	F	
ADA4084-4S	Quad Low Noise, R-R I/O, Low Power Amp	A	F-14	
ADA4084-4AF/QMLR	5962R1523601VXA	A	F	
ADA4084-4AF/QMLL	5962L1523602VXA	A	F	
ADA4096-2S	Dual Micropower Op Amplifier	S	F-10	
ADA4096-2AF/QMLR	5962R1420601VXA	S	F	
ADA4610-2S	Dual Low Input Bias Op Amplifier	S	F-10	
ADA4610-2BF/QMLR	5962R1420701VXA	S	F	
ADA4610-2BF/QMLL	5962L1420702VXA	S	F	
OP07S	Ultra-Low Offset Voltage Op Amplifier	A, X	C, J, L, Z	
OP07SAJ6	JM38510/13501SGA	A	J ¹	
OP07SAZ7	JM38510/13501SPA	A	Z	
OP07SZ7	JM38510/13502SPA	X	Z	
OP07AJ/QMLR	5962R9863901VGA	A	J ¹	
OP07AL/QMLR	5962R9863901VHA	A	L	
OP07AZ/QMLR	5962R9863901VPA	A	Z	
Space Level Die	OP07-000C	A	C	3
Space Level Die	OP07R000C	A	C	

OPERATIONAL AMPLIFIERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
OP11S	Quad Matched 741-Type Op Amplifier	A	C, M, Y	
OP11AM/QMLV	5962-8980101VDA	A	M	
Space Level Die	OP11-000C	A	C	3
OP12S	Precision Low Input Current Op Amplifier	A	C	
Space Level Die	OP12-000C	A	C	3
OP15S	Precision JFET-Input Op Amplifier	A	J, L, Z	
OP15AJ/QMLR	5962R8954203VGA	A	J ¹	
OP15AL/QMLR	5962R8954203VHA	A	L	
OP15AZ/QMLR	5962R8954203VPA	A	Z	
OP16S	Precision JFET-Input Op Amplifier	A	J, Z	
OP16AJ/QMLR	5962R8954304VGA	A	J ¹	
OP16AZ/QMLR	5962R8954304VPA	A	Z	
OP22S	Programmable Micro Power Op Amplifier	A	J	
	OP22-903J	A	J ¹	3
OP27S	Low Noise Precision Op Amplifier	A	C, J, L, RC, Z	
OP27SAJ6	JM38510/13503SGA	A	J ¹	
OP27SAZ7	JM38510/13503SPA	A	Z	
OP27AJ/QMLR	5962R9468002VGA	A	J ¹	
OP27AL/QMLR	5962R9468002VHA	A	L	
OP27ARC/QMLR	5962R9468002V2A	A	RC	
OP27AZ/QMLR	5962R9468002VPA	A	Z	
OP27AL/QMLL	5962L9468003VHA	A	L	
Space Level Die	OP27-000C	A	C	3
Space Level Die	OP27R000C	A	C	
OP37S	Low Noise Precision High Speed Op Amp	A	J, Z	
OP37AJ/QMLV	5962-8853701VGA	A	J ¹	
OP37AZ/QMLV	5962-8853701VPA	A	Z	
OP42S	Hi Speed, Fast Settling Precision JFET-Input	A	J, Z	
OP42AJ/QMLV	5962-8851301VGA	A	J ¹	
OP42AZ/QMLV	5962-8851301VPA	A	Z	
OP77S	Next Generation OP07	A	J, L, RC, Z	
OP77AJ/QMLV	5962-8773802VGA	A	J ¹	
OP77AL/QMLV	5962-8773802VHA	A	L	
OP77ARC/QMLV	5962-8773802V2A	A	RC	
OP77AZ/QMLV	5962-8773802VPA	A	Z	

OPERATIONAL AMPLIFIERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
OP200S	Dual Low-Offset, Low Power Op Amplifier	A	RC, Z	
OP200ARC/QMLV	5962-8859301V2A	A	RC	
OP200AZ/QMLV	5962-8859301VPA	A	Z	
OP215S	Dual Precision JFET Input Op Amplifier	A	C, J, RC, Z	
OP215AJ/QMLR	5962R8853801VGA	A	J ¹	
OP215AZ/QMLR	5962R8853801VPA	A	Z	
OP215ARC/QMLR	5962R8853804V2A	A	RC	
Space Level Die	OP215-000C	A	C	3
Space Level Die	OP215R000C	A	C	
OP227S	Dual Low Noise Low Offset Inst. Op Amp	A	Y, M	
	OP227R903Y	A	Y	
	OP227R903M	A	M	
OP270S	Dual Very Low Noise Precision Op Amplifier	A	C, RC, Z, M	
OP270AZ/QMLV	5962-8872101VPA	A	Z	
OP270ARC/QMLV	5962-8872101V2A	A	RC	
OP270AZ/QMLR	5962R8872101VPA	A	Z	
OP270AM/QMLR	5962R8872101VDA	A	M	
OP270ARC/QMLR	5962R8872101V2A	A	RC	
OP270AM/QMLL	5962L8872103VDA	A	M	
Space Level Die	OP270-000C	A	C	3
Space Level Die	OP270R000C	A	C	
OP400S	Quad Low-Offset, Low-Power Op Amplifier	A	C, N, TC, Y	
OP400AN/QMLV	5962-8777101VKA	A	N	
OP400ATC/QMLV	5962-8777101V3A	A	TC	
OP400AY/QMLV	5962-8777101VCA	A	Y	
OP400AY/QMLR	5962R8777101VCA	A	Y	
OP400AN/QMLR	5962R8777101VKA	A	N	
OP400AN/QMLL	5962L8777102VKA	A	N	
Space Level Die	OP400-000C	A	C	3

OPERATIONAL AMPLIFIERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
OP467S	Quad High-Speed Precision Op Amplifier	A	RC, Y, M	
OP467ARC/QMLV	5962-9325801V2A	A	RC	
OP467AM/QMLR	5962R9325801VDA	A	M	
OP467AY/QMLR	5962R9325801VCA	A	Y	
OP470S	Very Low-Noise Quad Op Amplifier	A	C, N,RC,TC,Y	
OP470ARC/QMLV	5962-8856501V2A	A	RC	
OP470ARC/QMLR	5962R8856501V2A	A	RC	
OP470AN/QMLR	5962R8856501VKA	A	N	
OP470AY/QMLR	5962R8856501VCA	A	Y	
OP470AY/QMLL	5962L8856503VCA	A	Y	
OP470-903TC	OP470-903TC	A	TC	3
Space Level Die	OP470-000C	A	C	3
Space Level Die	OP470R000C	A	C	
OP471S	High Speed Low Noise Quad Op Amplifier	A	M, N, Y	
OP471AM/QMLR	5962R8856502VDA	A	M	
OP471AN/QMLR	5962R8856502VKA	A	N	
OP471AY/QMLR	5962R8856502VCA	A	Y	
OP471AM/QMLL	5962L8856504VDA	A	M	
OP484S	Precision, Rail to Rail IP/OP Op Amplifier	A	C, Y, M	
OP484AY/QMLV	5962-0051701VCA	A	Y	
OP484AM/QMLV	5962-0051701VDA	A	M	
OP484AY/QMLR	5962R0051701VCA	A	Y	
OP484AM/QMLR	5962R0051701VDA	A	M	
OP484AM/QMLL	5962L0051702VDA	A	M	
Space Level Die	OP484-000C	A	C	3
Space Level Die	OP484R000C	A	C	
PM108S	Low Input Current Op Amplifier	A	C, J, L, Z	
PM108SAJ6	JM38510/10104SGA	A	J ¹	
PM108AJ/QMLR	5962R9863701VGA	A	J ¹	
PM108AL/QMLR	5962R9863701VHA	A	L	
PM108AZ/QMLR	5962R9863701VPA	A	Z	
Space Level Die	PM108-000C	A	C	3
Space Level Die	PM108R000C	A	C	

OPERATIONAL AMPLIFIERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
PM155S	Monolithic JFET Input Op Amplifier	A, X	J, Z	
PM155SAJ6	JM38510/11404SGA	A	J ¹	
PM155SAZ7	JM38510/11404SPA	A	Z	
PM155AJ/QMLR	5962R9863601VGA	A	J ¹	
PM155AZ/QMLR	5962R9863601VPA	A	Z	
PM156S	Monolithic JFET Input Op Amplifier	A, X	J, Z	
PM156SJ6	JM38510/11402SGA	X	J ¹	
PM156SAJ6	JM38510/11405SGA	A	J ¹	
PM156AJ/QMLR	5962R9863602VGA	A	J ¹	
RH07	Precision Op Amplifier	-	DICE, H, W, J8	
05-08-5010 Option 1	RH07H	-	H ²	
05-08-5010 Option 2	RH07J8	-	J8	
05-08-5010 Option 3	RH07W	-	W	
05-08-5254	RH07DICE	-	DICE	
RH1013	Dual Precision Op Amplifier	-	DICE, H, W, J8	
05-08-5013 Option 1	RH1013MH	-	H ²	
05-08-5013 Option 2	RH1013MJ8	-	J8	
RH1013MW (05-08-5013 Option 3)	5962R8876003VHA	-	W	9
RH1013DICE (05-08-5112)	5962R8876003V9A	-	DICE	9
RH1014	Quad Precision Op Amplifier	-	J, W	
05-08-5014 Option 1	RH1014MJ	-	J ²	
RH1014MW (05-08-5014 Option 2)	5962R8967703VDA	-	W	9
RH101A	Operational Amplifier	A	DICE, H, W, J8	
05-08-5015 Option 1	RH101AH	A	H ²	
05-08-5015 Option 2	RH101AJ8	A	J8	
05-08-5015 Option 3	RH101AW	A	W	
05-08-5154	RH101ADICE	A	DICE	
RH1028	Ultralow Noise Precision Op Amplifier	-	DICE, W	
05-08-5217	RH1028MW	-	W	
05-08-5238	RH1028MDICE	-	DICE	
RH1056	Precision High Speed JFET Input Op Amplifier	A	DICE, H, W	
05-08-5019 Option 1	RH1056AMH	A	H ²	
05-08-5019 Option 2	RH1056AMW	A	W	
05-08-5212	RH1056ADICE	A	DICE	

OPERATIONAL AMPLIFIERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
RH1078	Dual Micropower Precision Op Amplifier	-	DICE, H, MJ8, W	
05-08-5020 Option 1	RH1078MH	-	H	
05-08-5020 Option 2	RH1078MJ8	-	J8	
05-08-5020 Option 3	RH1078MW	-	W	
05-08-5209	RH1078MDICE	-	DICE	
RH108A	General Purpose Op Amplifier	A	DICE, H, MJ8, W	
05-08-5022 Option 1	RH108AH	A	H ²	
05-08-5022 Option 2	RH108AJ8	A	J8	
05-08-5022 Option 3	RH108AW	A	W	
05-08-5111	RH108ADICE	A	DICE	
RH1128	Ultralow Noise Precision Op Amplifier	-	DICE, W	
05-08-5218	RH1128MW	-	W	
05-08-5238	RH1128MDICE	-	DICE	
RH118	Precision High Speed Op Amplifier	-	H, J8, W	
05-08-5025 Option 1	RH118H	-	H ²	
05-08-5025 Option 2	RH118J8	-	J8	
05-08-5025 Option 3	RH118W	-	W	
RH1498	Dual R-R Precision C-Load Op Amplifier	-	DICE, W	
RH1498MW (05-08-5201)	5962R1325001VHA	-	W	9
RH1498DICE (05-08-5208)	5962R1325001V9A	-	DICE	9
RH1499	Quad R-R Precision C-Load Op Amplifier	-	W	
RH1499MW (05-08-5208)	5962R1325001V9A	-	W	9
RH1814	Quad High Speed, High Slew Rate Op Amplifier	-	DICE, W	
05-08-5204	RH1814MW	-	W	
05-08-5220	RH1814MDICE	-	DICE	8
RH27	Precision Low Offset Op Amplifier	AE, E, C	DICE, H, J8, W	
05-08-5029 Option 1	RH27CH	C	H ²	
05-08-5029 Option 2	RH27CJ8	C	J8	
05-08-5029 Option 3	RH27CW	C	W	
05-08-5029 Option 4	RH27EW	E	W	
05-08-5029 Option 5	RH27EH	E	H ²	
05-08-5029 Option 6	RH27AEW	AE	W	
05-08-5114	RH27CDICE	C	DICE	

OPERATIONAL AMPLIFIERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
RH37	Precision High Speed Op Amplifier	C	H, J8, W	
05-08-5030 Option 1	RH37CH	C	H ²	
05-08-5030 Option 2	RH37CJ8	C	J8	
05-08-5030 Option 3	RH37CW	C	W	
RH6200	High Speed R-R Low Noise Op Amplifier	-	DICE, W	
05-08-5249	RH6200MW	-	W	
05-08-5250	RH6200MDICE	-	DICE	

VOLTAGE REFERENCES

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
AD584S	Pin Programmable Precision Voltage Ref	S, T	H-8	
AD584SH/QMLV	5962-3812801VGA	S	H ¹	
AD584TH/QMLV	5962-3812802VGA	T	H ¹	
AD584SH/QMLR	5962R3812801VGA	S	H ¹	
AD584TH/QMLR	5962R3812802VGA	T	H ¹	
AD584TH/QMLL	5962L3812805VGA	T	H ¹	
AD589S	Precision 1.2 Volt IC Reference	T	H-2	
AD589TH/QMLV	5962-8992901VXA	T	H ¹	
REF01S	+10V Precision Voltage Reference	A	J, L, RC, Z	
REF01AJ/QMLR	5962R8958101VGA	A	J ¹	
REF01AL/QMLR	5962R8958101VHA	A	L	
REF01ARC/QMLR	5962R8958101V2A	A	RC	
REF01AL/QMLL	5962L8958105VHA	A	L	
Space Level Die	REF01-000C	A	C	3
Space Level Die	REF01R000C	A	C	
REF02S	+5V Precision Volt Ref / Temp. Transducer	A	C, J, L, RC, Z	
REF02AJ/QMLR	5962R8551401VGA	A	J ¹	
REF02AL/QMLR	5962R8551401VHA	A	L	
REF02ARC/QMLR	5962R85514 01V2A	A	RC	
REF02AZ/QMLR	5962R8551401VPA	A	Z	
REF02AL/QMLL	5962L8551405VHA	A	L	
Space Level Die	REF02-000C	A	C	3
Space Level Die	REF02R000C	A	C	

VOLTAGE REFERENCES

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
REF05S	+5V Precision Voltage Reference	A	J, L, Z	
REF05AJ/QMLR	5962R0051601VGA	A	J ¹	
REF05AL/QMLR	5962R0051601VHA	A	L	
REF05AZ/QMLR	5962R0051601VPA	A	Z	
REF05AL/QMLL	5962L0051602VHA	A	L	
REF10S	+10V Precision Voltage Reference	A	J, L	
REF10AJ/QMLR	5962R8947901VGA	A	J ¹	
REF10AL/QMLR	5962R8947901VHA	A	L	
REF10AL/QMLL	5962L8947903VHA	A	L	
REF43S	+2.5V Low-Power Precision Voltage Ref	B	J, L, RC, Z	
REF43AZ/QMLR	5962R9060302VPA	B	Z	
REF43AL/QMLR	5962R9060303VHA	B	L	
REF43AL/QMLL	5962L9060304VHA	B	L	
	REF43-803J	B	J ¹	3
	REF43-803L	B	L	3
	REF43-803RC	B	RC	3
	REF43-803Z	B	Z	3
	REF43R803J	B	J ¹	
	REF43R803RC	B	RC	
RH1009	+2.5V Precision Voltage Reference	-	H, W, DICE	
RH1009MH (05-08-5011 Option 1)	5962R8961002VXC	-	H ²	9
RH1009MW (05-08-5011 Option 2)	5962R8961002VHA	-	W	9
RH1009MDICE (05-08-5115)	5962R8961002V9A	-	DICE	9
RH1021	+5V, +7V, +10V Precision Voltage Reference	B, C, D	H, W, DICE	
RH1021BMH-5 (05-08-5016 Option 1)	5962R8876201VGA	B	H ²	9
RH1021CMH-5 (05-08-5016 Option 2)	5962R8876202VGA,	C	H ²	9
05-08-5016 Option 3	RH1021DMH-5	D	H ²	
RH1021CMW-5 (05-08-5016 Option 4)	5962R8876202VHA	C	W	9

VOLTAGE REFERENCES

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
RH1021C-5DICE (05-08-5117)	5962R8876202V9A	C	DICE	9
05-08-5017 Option 1	RH1021BMH-7	B	H ²	
05-08-5017 Option 2	RH1021DMH-7	D	H ²	
RH1021BMH-10 (05-08-5018 Option 1)	5962R8860001VGA	B	H ²	9
RH1021CMH-10 (05-08-5018 Option 2)	5962R8860002VGA,	C	H ²	9
05-08-5018 Option 3	RH1021DMH-10	D	H ²	
RH1021 Cont	+5V, +7V, +10V Precision Voltage Reference	B, C, D	H, W, DICE	
RH1021CMW-10 (05-08-5018 Opt 4)	5962R8860002VHA	C	W	9
RH1021C-10DICE (05-08-5118)	5962R8860002V9A	C	DICE	9
RH1034-1.2	+1.2V Voltage Reference (+7V Aux)	-	H, W	
05-08-5229 Option 1	RH1034MW-1.2	-	W	
05-08-5229 Option 2	RH1034MH-1.2	-	H ²	
RH129A	+6.9V Voltage Reference	A	H	
05-08-5027	RH129AH	A	H ²	

SWITCHES AND MULTIPLEXERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
AD8182S	Dual 2:1 Buffered Mux	A	M	
AD8182AM/QMLR	5962R1021101VDA	A	M	
AD8182AM/QMLL	5962L1021102VDA	A	M	
ADG201S	LCMOS Hi-speed QUAD SPST Switches	T	Q-16	
	ADG201-803Q	T	Q	2, 3
SW201S	Quad SPST JFET Analog Switch	B	Q	
	SW201-803Q	B	Q	3

SAMPLE-AND-HOLD AMPLIFIERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
AD585S	Hi Speed, Precision Sample-and-Hold Amp	S	M	
	AD585-703M	S	M	3
	AD585-713M	S	M	3

SWITCHES AND MULTIPLEXERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
SMP11S	Low Droop Rate/Accurate Sample/Hold Amp	B	Y	
	SMP11-803Y	B	Y	3

RF/IF ICs

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
ADL5501S	Tru Pwr RMS Detector 50MHz - 6GHz	A	L	
ADL5501AL/QMLR	5962R1123901VHA	A	L	
ADL5501AL/QMLL	5962L1123902VHA	A	L	
ADL5513S	4 GHz Log Amp	A	F-16	
ADL5513AF/QMLR	5962R1120301VXA	A	F	
AD8346S	2.5 GHz Modulator	A	F-16	
AD8346AF/QMLR	5962R0922701VXA	A	F	
AD8346AF/QMLL	5962L0922702VXA	A	F	
ADF4108S	7 GHz PLL Frequency Synthesizer	A,B	F-16	
ADF4108L703F	5962L1420401VXA	A	F	
ADF4108L803F	5962L1420402VXA	B	F	
ADL6010S	Fast Responding, 45 dB Range, 0.5 GHz to 43.5 GHz Envelope Detector	A	LSH6	
	ADL6010R703LSH6	A	LSH6	

CLOCK GENERATION AND DISTRIBUTION

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
ADCLK925S	ECL Clock/Data Fanout Buffer 7GHz	A	F-16	
ADCLK925AF/QMLR	5962R1320501VXA	A	F	
ADCLK925AF/QMLL	5962L1320502VXA	A	F	

ISOLATORS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
ADuM7442S	25 MBPS Quad Channel Digital Isolator	S	F-16	
	ADUM7442R703F	S	F	
ADuM3190S	High Stability Isolated Error Amplifier	S	F-16	
	ADUM3190P703F	S	F	

ISOLATORS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
ADuM141ES	150 MBPS Quad-Channel Digital Isolator	S	F-16	
	ADUM141E1L703F	S	F	

LINEAR REGULATORS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
RH1085	3A LDO Regulator	-	DICE, K	
	05-08-5105 RH1085MK	-	K	
	05-08-5140 RH1085MKDICE	-	DICE	
RH1086	0.5A & 1.5A LDO Regulator	-	DICE, H, K	
	05-08-5021 RH1086MH	-	H ²	
	05-08-5021 RH1086MK	-	K	
	05-08-5134 RH1086BHKDICE	-	DICE	
	05-08-5134 RH1086BKDICE	-	DICE	
RH117	0.5A & 1.5A Regulator	-	DICE, H, K	
	05-08-5024 RH117H	-	H ²	
	05-08-5024 RH117K	-	K	
	05-08-5116 RH117DICE	-	DICE	
	05-08-5116 RH117KDICE	-	DICE	
RH1185	3A Negative LDO Regulator	A	DICE, K	
	05-08-5206 RH1185AMK	A	K	
	05-08-5232 RH1185AMKDICE	A	DICE	
RH137	0.5A & 1.5A Negative Regulator	-	DICE, H, K	
	05-08-5028 RH137H	-	H ²	
	05-08-5028 RH137K	-	K	
	05-08-5113 RH137DICE	-	DICE	
	05-08-5113 RH137KDICE	-	DICE	
RH1573	LDO PNP Regulator Driver	-	DICE	
	05-08-5223 RH1573MKDICE	-	DICE	
RH1965	0.9A Low Noise, LDO Regulator	-	DICE	
	05-08-5273 RH1965MKDICE	-	DICE	
RH3080	0.9A Single Resistor LDO Regulator	-	DICE	
	05-08-5246 RH3080MKDICE	-	DICE	

LINEAR REGULATORS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
RH3083	2.8A Single Resistor LDO Regulator	-	DICE	
05-08-5744	RH3083MKDICE	-	DICE	

SWITCHING REGULATORS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
RH1959	4.5A Switching Regulator		DICE	
	RH1959MILDICE		DICE	
RH3845	60Vin Synchronous Switching Controller		DICE	
	RH3845MKDICE		DICE	
RHK3845	60Vin Synchronous Switching Controller Kit Including 1 x RH3845 & 2 x RH411	-	DICE	
	RHK3845MKDICE	-	DICE	

RF & MICROWAVE

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
ADH141S	6 - 18GHz, Double Balanced Mixer RF & LO=6-18GHz, IF=DC-6GHz		C	
Space Level Die	HMC8804		C	
ADH232S	DC - 15GHz, High Isolation, Non-Reflective SPDT Switch		C	
Space Level Die	HMC8800		C	
ADH346S	DC - 20GHz, Voltage Variable Attenuator		C	
Space Level Die	HMC8801		C	
ADH395S	InGaP HBT Gain Block Amplifier, DC – 4 GHz		G8	
	ADH395-701G8		G	
ADH424S	DC - 13GHz, 0.5dB LSB 6-Bit Digital Attenuator		C	
Space Level Die	HMC8802		C	
ADH451S	GaAs PHEMT Medium Power Amplifier 5 GHz - 18 GHz		LH5	
	ADH451-701LH5		LH5	
ADH463S	2 - 20GHz, Low Noise Amplifier with Adjustable Gain Control		C	
Space Level Die	HMC8803		C	

RF & MICROWAVE

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
ADH519S	GaAs PHEMT MMIC Low Noise Amp, 18 – 31 GHz		LSH6	
	ADH519R701LSH6		LSH6	
ADH554S	GaAs Fundamental Mixer, 11 GHz – 18 GHz		LH5	
	ADH554-701LH5		LH5	
ADH987S	3.3V Low Noise 1:9 Fanout Buffer DC – 4GHz		G32	
	ADH987L701G32		G	
ADH1015S	26 - 32GHz, Triple Balanced Mixer RF=26-32GHz, LO=7-11GHz & IF=16-22GHz		C	
Space Level Die	HMC8805		C	
RH5596S	100MHz to 40GHz Linear-in-dB RMS Power Detector		C	
Space Level Die	RH5596DICE		C	
ADH8410S	0.01 GHz to 10 GHz, GaAs, pHEMT, MMIC, Low Noise Amplifier		C	
Space Level Die	ADH8410-000C		C	

OTHER FUNCTIONS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
AD537S	Voltage to Frequency Converter, +/-30V to 150kHz	S	D-14	
	AD537-703D	S	D	2, 3
AD590S	2 Terminal Temperature Transducer, 1uA/°K	L, M	H-3, F-2	
AD590MF/QMLR	5962R8757104VXA	M	F	
AD590MH/QMLR	5962R8757104VYA	M	H ¹	
AD590LF/QMLR	5962R8757103VXA	L	F	
AD590LH/QMLR	5962R8757103VYA	L	H ¹	
AD590MH/QMLL	5962L8757105VYA	M	H ¹	
AD652S	Synchronous Voltage to Frequency Conv	S	Q-16	
AD652SQ/QMLV	5962-9322201VEA	S	Q-16	
AD9814S	14-Bit, 3-Channel CCD Signal Processor		F-28	
	AD9814-703F		F-28	2, 3
MAT02S	Low Noise, Matched Dual NPN Transistor	A	C, H	
	MAT02-903H	A	H ¹	3
Space Level Die	MAT02-000C	A	C	3
MAT03S	Low Noise, Matched Dual PNP Transistor	A	C, L	

OTHER FUNCTIONS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
	MAT03-903L	A	L	3
Space Level Die	MAT03-000C	A	C	3

Partner Products:

Partner products are built using LTC RHDICE and sold by ANAREN INC. formerly MS KENNEDY CORP. (MSK prefix) and COBHAM plc formerly AEROFLEX MICROELECTRONIC SOLUTIONS (VRG and RAD prefix).

LTC RH DICE part numbers are shown for each partner product, please contact the partner company for the latest status or visit the following web pages to access the SMDs and data sheets.

Websites:

http://www.linear.com/products/Space_Qualified_Products

<http://mskennedy.com/products/Rad-Hard-Products>

<http://ams.aeroflex.com/pagesproduct/prods-hirel-voltage.cfm>

ANALOG TO DIGITAL CONVERTERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
RAD1419 (R1419DICE)	14-Bit 800KSPS ADC	A	FP	
	RAD-1419ADC-01	A	FP	5

OPERATIONAL AMPLIFIERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
MSK0041 (RH101ADICE)	0.5A Power Op Amplifier	-	TO-8	
	MSK0041KRH	-	TO-8	6
MSK106 (RH101ADICE)	2A Power Op Amplifier	-	FP	
MSK106KRH	5962R1122801KXX	-	FP	6
MSK106KRHG	5962R1122801KYX	-	FP	6

CURRENT SENSE AMPLIFIERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
MSK196 (RH6105DICE)	Micropower R-R Current Sense Amp	-	FP	
MSK196VRH	5962R13222KXA	-	FP	6
MSK196VRHG	5962R13222KYA	-	FP	6

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Websites:

http://www.linear.com/products/Space_Qualified_Products

<http://mskennedy.com/products/Rad-Hard-Products>

<http://ams.aeroflex.com/pagesproduct/prods-hirel-voltage.cfm>

ANALOG TO DIGITAL CONVERTERS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
MSK496 (4 x RH6105DICE)	Quad Micropower R-R Current Sense Amp	-	FP	
	MSK496KRH	-	FP	6

LINEAR REGULATORS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
MSK5800 (RH1573DICE)	4A ULDO Regulator	-	FP-12	
	MSK5800KRH	5962F09216	FP-12	6
MSK5805 (RH1573DICE)	1A ULDO Regulator	-	FP-16	
	MSK5805KRHx	-	FP-16	6, 7
MSK5810 (RH1573DICE)	5A ULDO Regulator	-	FP-20	
	MSK5810KRHx	5962F09216	FP-20	6, 7
MSK5820 (RH1573DICE)	5A ULDO Regulator (1.5, 1.8, 1.9, 2.5, 2.8, 3.3 & 5V Fixed Voltages)	-	TAB-PP	
	MSK5820-x.xKRHx	5962F09216	TAB-PP	6, 7
MSK5821 (RH1573DICE)	5A ULDO Regulator	-	TAB-PP	
	MSK5821KRHx	5962F09216	TAB-PP	6, 7
MSK5822 (RH1573DICE)	5A ULDO Regulator Split Bias (1.5, 1.9, 2.5, 2.8, 3.3 & 5V Fixed Voltages)	-	TAB-PP	
	MSK5822-x.xKRHx	5962F09236	TAB-PP	6, 7

LINEAR REGULATORS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
MSK5823 (RH1573DICE)	3A ULDO Regulator (1.8 & 2.5V Fixed Voltages)	-	FP-8	
MSK5823-x.xKRHx	5962F08246	-	FP-8	6, 7
MSK5824 (RH1573DICE)	3A ULDO Regulator	-	FP-8	
MSK5824KRHx	5962F09208	-	FP-8	6, 7
MSK5825 (RH1573DICE)	3A ULDO Regulator (2.5 & 3.3V Fixed Voltages)	-	FP-8	
MSK5825KRHx	5962F09209	-	FP-8	6, 7
MSK5826 (RH1573DICE)	3A ULDO Regulator	-	FP-8	
MSK5826KRHx	5962F09210	-	FP-8	6, 7
MSK5940 (RH1185ADICE)	3A Negative LDO Regulator (-5, -5.2, -10, -12, -15V Fixed Voltages)	A	TO-257	
	MSK5940-x.xKRHx	A	TO-257	6, 7
MSK5953 (2 x RH3080DICE)	Dual 1A Single Resistor LDO Regulator	-	FP-12	
	MSK5953KRH	-	FP-12	6
MSK5965 (RH1965DICE)	0.9A Low Noise LDO Regulator	-	FP-10	
	MSK5965KRHx	-	FP-10	6, 7
MSK5970 (RH1086DICE)	1.5A LDO Regulator	-	SMD-1, TO-257	
	MSK5970KRHx	-	TO-257	6, 7
	MSK5970KRHL	-	SMD-1	6
MSK5971 (RH1085DICE)	3A LDO Regulator	-	SMD-1, TO-257	
	MSK5971KRHx	-	TO-257	6, 7
	MSK5971KRHL	-	SMD-1	6
MSK5972 (RH117DICE)	1.5A LDO Regulator	-	SMD-1, TO-257	
	MSK5972KRHx	-	TO-257	6, 7
	MSK5972KRHL	-	SMD-1	6
MSK5973 (RH137DICE)	1.5A Negative LDO Regulator	-	SMD-1, TO-257	
	MSK5973KRHx	-	TO-257	6, 7
	MSK5973KRHL	-	SMD-1	6
MSK5978 (RH3080DICE)	0.7A Single Resistor LDO Regulator	-	FP-10	
	MSK5978VRHx	-	FP-10	6, 7
MSK5979 (RH3080DICE)	0.9A Single Resistor LDO Regulator	-	TO-257	
	MSK5979VRHx	-	TO-257	6, 7

LINEAR REGULATORS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
MSK5983 (RH3083DICE)	2.25A Single Resistor LDO Regulator	-	FP-16	
	MSK5983KRHx	-	FP-16	6, 7
MSK5984 (RH3083DICE)	2.8A Single Resistor LDO Regulator	-	TO-257	
	MSK5984KRHx	-	TO-257	6, 7
MSK5985 (RH3083DICE)	1.9A Single Resistor LDO Regulator	-	TAB-PP	
	MSK5985KRHx	-	TAB-PP	6, 7
VRG8601 / VRG8602 (RH117DICE + RH137DICE)	Dual 1.5A (Positive) & 1.5A (Negative) Regulator	-	TAB-PP	
	VRG8601 / VRG8602	5962R05219	TAB-PP	5, 7
VRG8607 / VRG8608 (2 x RH117DICE)	Dual 1.5A Regulator	-	TAB-PP	
	VRG8601 / VRG8602	5962R05219	TAB-PP	5, 7
VRG8651 / VRG8652 (RH1086DICE + RH1185ADICE)	Dual 1A (Positive) & 3A (Negative) LDO Regulator	-/A	TAB-PP	
	VR8651 / VRG8652	5962R09201	TAB-PP	5, 7
VRG8657 / VRG8658 (2 x RH1086DICE)	Dual 1A LDO Regulator	-	TAB-PP	
	VRG8657 / VRG8658	5962R09201	TAB-PP	5, 7
VRG8660 (RH117DICE)	1A LDO Regulator	-	SMD-0.5	
	VRG8660	5962R09206	SMD-0.5	
VRG8662 (RH1086DICE)	1A LDO Regulator	-	SMD-0.5	
	VRG8662	5962R09207	SMD-0.5	5
VRG8663 (RH1185ADICE)	3A Negative LDO Regulator	A	SMD	
	VRG8663	5962R09207	SMD-0.5	5
VRG8666 (RH3080DICE)	1A Single Resistor LDO Regulator	-	SMD	
	VRG8666	5962R11205	SMD	5
VRG8667 / VRG8668 (2 x RH3080DICE)	Dual 1A Single Resistor LDO Regulator	-	TAB-PP	
	VRG8667 / VRG8668	5962R13203	TAB-PP	5, 7
VRG8669 (RH3083DICE)	2.5A Single Resistor LDO Regulator	-	SMD	
	VRG8669	5962R14201	SMD	5
VRG8697 / VRG8698 (2 x RH3080DICE)	Dual 2.5A Single Resistor LDO Regulators	-	TAB-PP	
	VRG8697 / VRG8698	5962R14202	TAB-PP	5, 7

SWITCHING REGULATORS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
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LINEAR REGULATORS

Product/Description	Part Number ³	Electrical Grade	Package ¹	Note
MSK5044 (RH1959DICE)	3.5A Switching Regulator (Isolated Case)	-	TAB-PP	
MSK5044KRHx	5962R11231	-	TAB-PP	6, 7
MSK5048 (RH1959DICE)	3.5A Switching Regulator (Grounded Case)	-	TAB-PP	
MSK5048KRHx	5962R11232	-	TAB-PP	6, 7
MSK5055 (RH3845DICE)	60Vin Synchronous Switching Controller	-	FP-16	
MSK5055-xKRHx	5962F14223	-	FP-16	6, 7
MSK5059 (RH1959DICE)	4.5A Switching Regulator	-	FP-16	
MSK5059KRHx	5962R11234	-	FP-16	6, 7
MSK5063 (RHK3845DICE)	10A 60Vin Synchronous Switching Regulator Module (External Inductor)	-	FP-46	
	MSK5063KRHx	-	FP-46	6, 7

Notes

¹ See package descriptions on last page.

² Not available with wafer lot acceptance. Available as MIL-STD 883 Class B Dice plus SEM and Test Method 2010 Condition A Visual only.

³ Part Numbers in this column containing “-“ may utilize a “-“ or “0” in product documentation, shipping and/or purchasing documents.

⁴ Not available with wafer lot acceptance. SEM inspection per MIL-STD-883, Test Method 2018 is not applicable to this product as the wafer fabrication is manufactured using planarized metallization process.

⁵ Cobham (Aeroflex) product built using LTC space qualified DICE

⁶ Anaren (MSK) product built using LTC space qualified DICE

⁷ For lead form options please refer to SMD or data sheet

⁸ RH1814MDICE is a dual op amp (2 per RH1814MW packaged part)

⁹ LTC control drawing alternative to SMD in parenthesis

Product Prefix Guide

AD	Analog Devices
ADCLK	Analog Devices Clock Generation / Distribution
ADA	Analog Devices Amplifiers
ADH	Hittite Microwave
ADF	Analog Devices Frequency Synthesis
ADL	Analog Devices RF
ADuM	Analog Devices Micro-machined
AMP	Analog Devices Instrumentation Amplifier
DAC	Analog Devices Digital to Analog Converter
LTC	Linear Technology
MAT	Analog Devices Matched Transistor
MSK	Anaran-MSK (built with Linear Technology die)
MUX	Analog Devices Multiplexer
OP	Analog Devices Proprietary Operational Amplifier
PM	Analog Devices Second Source
RAD	Cobham-Aeroflex (built with Linear Technology die)
REF	Analog Devices Voltage Reference
RH	Linear Technology (Radiation Hardened)
RT	Linear Technology (Radiation Tolerant)
SMP	Analog Devices Sample and Hold Amplifier
SW	Analog Devices Switch
VRG	Cobham-Aeroflex (built with Linear Technology die)

Space Products Package Information

PRODUCT PACKAGE OPTION KEY*

	ADI Package Description	LTC Package Description
C	Dice	
D-xx	Side Brazed Hermetic DIP	
DICE		Dice
E-xx	Ceramic Leadless Chip Carrier	
F-xx	Bottom Brazed Ceramic Dual Flat Pack (2, 10, 14, 16, & 28 Lead)	
F-xx	Ceramic Quad Flat Pack (48, 52 Lead)	
FP		Hermetic Flatpack
G		SSOP Plastic Package
GX	Flat Package w/Gullwing Formed Lead (8, 32 Lead)	
H ¹	6 lead TO-99 Can (Santa Clara Based Product)	
H ²		TO-5, TO-39 Can (refer to SCD/SMD for details)
H-xx	Hermetic Metal Can (Other Analog Divisions)	
J ¹	8-Lead TO-99 Can	
J ²		14-Lead Ceramic Glass Seal DIP
J8		8-Lead Ceramic Glass Seal DIP
K		TO-3 Can
L	10-Lead Glass Seal Ceramic Dual Flat Pack	
LH5	12-Lead Leadless Chip Carrier	
LSH6	16-Lead Square Leadless Chip Carrier	
M	14-Lead Glass Seal Ceramic Dual Flat Pack	
MS		MSOP Plastic Package
N	24-Lead Glass Seal Ceramic Dual Flat Pack	
Q	16-Lead Cerdip (Santa Clara Based Product)	
Q-xx	Cerdip (Other Analog Divisions)	
QS-xx	Quad Flat Pack (48, 52-Lead)	
R	20-Lead Ceramic Dip	
RC	20-Lead Leadless Chip Carrier	
SMD		SMD Format Ceramic Chip Carrier Surface Mount
T	28-Lead Ceramic Glass Seal Dip	
TAB-PP		Metal Tab Power Package
TC	28-Lead Leadless Chip Carrier	
TO-8		Metal Can TO-8, 12 lead
W		Glass Seal Flatpack (10 or 14-Lead, refer to SCD/SMD)
X	18-Lead Ceramic Glass Seal Dip	
Y	14 Lead Ceramic Glass Seal Dip	
Z	8-Lead Ceramic Glass Seal Dip	

*Call factory for availability of products / packages not in this parts list.