

# NATIONAL PRODUCTS Analog ICs

National Products  
from Texas Instruments

RoHS Compliant This product is RoHS compliant.

## ACTIVE FILTERS

MOUSER STOCK NO.	National Products Part No.	Package Style	Filter Sections	Order Per Filter Section	Filter Class	Filter Type	Temperature Range (°C)	Price Each		
								1	25	100
926-MF10CCN/NOPB	MF10CCN/NOPB	DIP-20	2	4	Switched Capacitor	Universal	0 to 70	4.42	3.55	3.23
926-MF10CCWM/NOPB	MF10CCWM/NOPB	SOIC-20	2	4	Switched Capacitor	Universal	0 to 70	3.33	2.67	2.43
926-LMF100CIWM/NOPB	LMF100CIWM/NOPB	SOIC-20	2	4	Switched Capacitor	Universal	-40 to 85	6.78	5.44	4.96

For quantities greater than listed, call for quote.

## BUFFERS

MOUSER STOCK NO.	National Products Part No.	Package Style	Supply Voltage (V)		Gain Bandwidth (MHz)	Slew Rate (V/μs)	Differential		Supply Current / Ch (mA)	Output Current (mA)	No. of Chan.	Buffer Type	Price Each		
			Min.	Max.			Gain (%)	Phase (°)					1	25	100
Clock, High Speed															
926-LMV112SD/NOPB	LMV112SD/NOPB	LLP-8	2.4	5	40	120	----	----	0.8	68	2	Fixed	1.44	1.14	1.02
Closed Loop, High Speed															
926-LMH6559MA/NOPB	LMH6559MA/NOPB	SOIC-8	3	10	1750	4580	0.06	0.02	10	74	1	Fixed	2.78	2.24	2.02
926-LMH6559MF/NOPB	LMH6559MF/NOPB	SOT-23-5	3	10	1750	4580	0.06	0.02	10	74	1	Fixed	3.14	2.42	2.20
High Current Audio															
926-LME49610TS/NOPB	LME49610TS/NOPB	TO-263	2.1	46	120	2000	----	----	19	250	1	High Perform	12.25	10.04	9.06
926-LME49600TS/NOPB	LME49600TS/NOPB	TO-263	4.5	36	180	2000	----	----	14.5	250	1	Hi Perform	10.50	8.61	7.77
High Speed															
926-LMH6321MR/NOPB	LMH6321MR/NOPB	SOP-8	5	30	110	1800	----	----	10	300	1	Fixed	5.85	4.70	4.28
Selectable Gain															
926-LMH6704MF/NOPB	LMH6704MF/NOPB	SOT-23-6	8	12	650	3000	0.01	0.02	11.5	90	1	Programmable	3.54	2.89	2.59

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## CLOCKS

MOUSER STOCK NO.	National Products Part No.	Package Style	Supply Voltage (V)		Output Clock Freq. (MHz)	RMS Jitter (ps)	No. of Chan.	Supply Current / Ch (mA)	Phase Noise (dBc/Hz)	Output Types	PLL Type	Price Each			
			Min.	Max.								1	25	100	
Precision Clock Conditioner															
926-LMK03000CISQ/NOPB	LMK03000CISQ/NOPB	LLP-48	3.15	3.45	800	0.4	----	161.8	-219	LVDS, LVPECL, LVCMOS	PLL + VCO	21.80	19.62	17.98	
926-LMK03002ISQ/NOPB	LMK03002ISQ/NOPB	LLP-48	3.15	3.45	862	0.8	----	175	-219	LVPECL (4)	PLL + VCO	17.48	14.82	13.68	
Clock Tree Driver															
926-LMH2191TME/NOPB	LMH2191TME/NOPB	MicroSMD	2.5	5.5	52	0.095	2	0.095	-150	Digital	----	2.99	2.30	2.09	

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## REAL TIME CLOCK

MOUSER STOCK NO.	National Products Part No.	Package Style	Supply Voltage	Bus Interface	Memory Density	Integrated CPU Supv	RTC Bytes	Price Each		
								1	25	100
926-DP8570AV	DP8570AV	PLCC_28	5.5	Parallel	-	Yes	44	31.73	28.56	26.18

For quantities greater than listed, call for quote.

## EMBEDDED CLOCKS

MOUSER STOCK NO.	National Products Part No.	Package Style	Supply Voltage (V)	Clock (MHz)		Total Throughput (Mbps)	Payload Per/Ch (Mbps)	Function	Level		Price Each		
				Min.	Max.				Input	Output	1	25	100
				Min.	Max.				Input	Output	1	25	100
926-DS90UR124QVSNOPB	DS90UR124QVSNOPB	TQFP-64	3.3	5	43	1032	1032	Deserializer	FPD-Link II LVDS	LVCMOS	11.09	9.32	8.56
926-DS90UR241IVSNOPB	DS90UR241IVSNOPB	TQFP-48	3.3	5	43	1032	1032	Serializer	LVCMOS	FPD-Link LVDS	11.09	9.32	8.56
926-DS90UR241QVSNOPB	DS90UR241QVSNOPB	TQFP-48	3.3	5	43	1032	1032	Serializer	LVCMOS	FPD-Link LVDS	11.09	9.32	8.56
926-DS92LV181TVV/NOPB	DS92LV181TVV/NOPB	LQFP-80	3.3	15	66	2376	1188	Ser./Deser.	LVTTTL, BLVDS	LVDS/BLVDS, LVTTTL	16.94	14.24	13.09
926-92LV1212AMSA/NOPB	DS92LV1212AMSA/NOPB	SSOP-28	3.3	16	40	400	-	Deserializer	LVDS, BLVDS	LVTTTL	6.84	5.47	3.69
926-DS92LV1021AMSA/NOPB	DS92LV1021AMSA/NOPB	SSOP-28	3.3	16	40	400	400	Serializer	LVTTTL	LVDS, BLVDS	7.60	6.23	5.62
926-DS92LV1212AMSA/NOPB	DS92LV1212AMSA/NOPB	SSOP-28	3.3	16	40	400	400	Deserializer	LVDS, BLVDS	LVTTTL	7.60	6.23	5.62
926-921025HSM/NOPB	SCAN921025HSM/NOPB	FBGA-49	3.3	20	80	800	800	Serializer	LVTTTL	LVDS, BLVDS	8.80	7.30	6.64
926-921224SLC/NOPB	SCAN921224SLC/NOPB	FBGA-49	3.3	20	66	660	660	Deserializer	LVDS, BLVDS	LVTTTL	10.20	8.36	7.54
926-921226HSM/NOPB	SCAN921226HSM/NOPB	FBGA-49	3.3	20	80	800	800	Deserializer	LVDS, BLVDS	LVTTTL	10.70	8.77	7.91
926-DS92LV161TVHGNOPB	DS92LV161TVHGNOPB	LQFP-80	3.3	25	80	2560	1280	Ser./Deser.	LVTTTL, LVDS/BLVDS	LVDS/BLVDS, LVTTTL	16.70	14.04	12.90
926-DS92LV1224TMSANO	DS92LV1224TMSANO	SSOP-28	3.3	30	66	660	660	Deserializer	LVDS, BLVDS	LVTTTL	10.70	8.77	7.91

For quantities greater than listed, call for quote.

## PHASE-LOCKED LOOPS

MOUSER STOCK NO.	National Products Part No.	Package Style	No. of PLLs	PLL Freq. (MHz)		Aux PLL Freq. (MHz)		Supply Current (mA)	Supply Volt. (V)		Normal PLL Phase Noise	PLL Type	Price Each		
				Min.	Max.	Min.	Max.		Min.	Max.			1	25	100
				Min.	Max.	Min.	Max.		Min.	Max.			1	25	100
926-LMX2531LQ1650ENO	LMX2531LQ1650ENO	LLP-36	1	1106	3132	553	1566	34	2.7	3.2	-219 dBc/Hz	Delta-Sigma	13.80	11.70	10.80
926-LMX2531LQ2080ENO	LMX2531LQ2080ENO	LLP-36	1	1106	3132	553	1566	34	2.7	3.2	-219 dBc/Hz	Delta-Sigma	10.93	9.26	8.55
926-2541SQ2380E/NOPB	LMX2541SQ2380E/NOPB	LLP-36	1	1990	4000	31.6	2000	150	3.15	3.45	-225 dBc/Hz	Delta-Sigma	20.75	17.58	16.23
926-2541SQ3740E/NOPB	LMX2541SQ3740E/NOPB	LLP-36	1	1990	4000	31.6	2000	150	3.15	3.45	-225 dBc/Hz	Delta-Sigma	20.75	17.58	16.23
926-LMX2430TM/NOPB	LMX2430TM/NOPB	TSSOP-20	2	250	3000	100	800	4.2	2.25	2.75	-219 dBc/Hz	Integer-N	4.26	3.42	3.11
926-LMX2433SLEX/NOPB	LMX2433SLEX/NOPB	ULGA-20	2	250	3600	500	3000	4.4	2.25	2.75	-219 dBc/Hz	Integer-N	4.02	3.22	2.17
926-LMX2470SLEX/NOPB	LMX2470SLEX/NOPB	ULGA-24	2	500	2600	75	2600	3.9	2.25	2.75	-200 dBc/Hz	Delta-Sigma	4.50	3.60	2.43
926-LMX2433TM/NOPB	LMX2433TM/NOPB	TSSOP-20	2	500	3600	250	1700	5.2	2.25	2.75	-219 dBc/Hz	Integer-N	4.70	3.78	3.44
926-LMX2434TM/NOPB	LMX2434TM/NOPB	TSSOP-20	2	1000	5000	500	2500	7	2.25	2.75	-219 dBc/Hz	Integer-N	4.96	3.99	3.63
926-LMX2485ESQ/NOPB	LMX2485ESQ/NOPB	LLP-24	2	50	3000	75	800	5	2.5	3.6	-219 dBc/Hz	Delta-Sigma	7.41	6.05	5.43

For quantities greater than listed, call for quote.

## TIMERS

MOUSER STOCK NO.	National Products Part No.	Package Style	Supply Voltage (V)		Supply Current (mA)		Low Level Output Voltage (V)		High Level Output Voltage (V)		Output Rise Time (Typ.) (ns)	Output Fall Time (Typ.) (ns)	Price Each		
			Min.	Max.	Typ.	Max.	Min.	Max.	Min.	Typ.			1	25	100
			Min.	Max.	Typ.	Max.	Min.	Max.	Min.	Typ.			1	25	100
Single															
926-LMC555CM/NOPB	LMC555CM/NOPB	SOIC-8	1.5	15	0.15	0.4	1	2	10.5	11.3	15	15	1.32	1.05	.92
926-LMC555CN/NOPB	LMC555CN/NOPB	DIP-8	1.5	15	0.15	0.4	1	2	10.5	11.3	15	15	1.65	1.31	1.15
926-LM555CM/NOPB	LM555CM/NOPB	SOIC-8	4.5	16	3	6	80	200	2.75	3.3	100	100	1.38	1.09	.982
926-LM555CM/NOPB	LM555CM/NOPB	MiniSOIC-8	4.5	16	3	6	80	200	2.75	3.3	100	100	1.33	1.04	.942
926-LM555CM/NOPB	LM555CM/NOPB	SOIC-8	4.5	16	3	6	80	200	2.75	3.3	100	100	1.38	1.09	.982
926-LM555CN/NOPB	LM555CN/NOPB	DIIP-8	4.5	16	3	6	80	200	2.75	3.3	100	100	1.42	1.13	.992
Dual															
926-LMC555CMM/NOPB	LMC555CMM/NOPB	MiniSOIC-8	1.5	15	0.05	0.15	0.2	0.4	1	1.25	15	15	1.67	1.31	1.18
926-LMC555CMX/NOPB	LMC555CMX/NOPB	SOIC-8	1.5	15	0.05	0.15	0.2	0.4	1	1.25	15	15	1.43	1.13	1.01
926-LMC555CM	LMC555CM	SOIC-8	1.5	15	50	150	0.2	0.4	1	1.25	15	15	1.11	.88	.798
926-LM556CM/NOPB	LM556CM/NOPB	SOIC-14	4.5	16	3	6	80	200	2.75	3.3	100	100	1.86	1.47	1.32
926-LM556CN/NOPB	LM556CN/NOPB	DIP-14	4.5	16	3	6	80	200	2.75	3.3	100	100	1.55	1.25	1.12

For quantities greater than listed, call for quote.

## VIDEO TIMING ICs

MOUSER STOCK NO.	National Products Part No.	Package Style	Supply Voltage (V)	Function	Supported Formats	Temp. Range (°C)	Price Each		
							1	25	100
926-LM1881M/NOPB	LM1881M/NOPB	SOIC-8	5	Sync Separator	NTSC, SECAM, Bi-level sync only, PAL	0 to 70	3.11	2.49	2.27
926-LM1881MX/NOPB	LM1881MX/NOPB	SOIC-8	5	Sync Separator	NTSC, SECAM, Bi-level sync only, PAL	0 to 70	3.33	2.71	2.44

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