

# Linear Circuits

## Wideband Amplifiers

Type	Description	Differential Input/Output	Operating <sup>1</sup> Temperature Range	Input Impedance		Output Voltage Swing (V p-p)	Bandwidth (MHz)	Voltage Gain (dB)	Available Packages		
				k $\Omega$	@ kHz				Q	DC	T
RC702	Wideband Amplifier	Yes/No	C	32	1.0	10	30	66	X	X	X
RM702	Wideband Amplifier	Yes/No	A	40	1.0	10	30	66	X	X	X
RC733	Differential Video Amplifier	Yes/Yes	C	4	1.0	4	40	52			X
				30			90	40			
				250			120	20			
RM733	Differential Video Amplifier	Yes/Yes	A	4	1.0	4	40	52	X		X
				30			90	40			
				250			120	20			

## Timers

Type	Description	Threshold Timing		Trigger Voltage		Control Voltage Level		Temp. <sup>1</sup> Range	Available Packages					
		Voltage	Error	V <sub>CC</sub> = 15V	V <sub>CC</sub> = 5V	V <sub>CC</sub> = 15V	V <sub>CC</sub> = 5V		T	NB	DB	DC	DE	
		RC555	Electronic Timer	.66 V <sub>CC</sub>	1.0%	5V	1.67V	10V	3.33V	C	X	X		
RM555	Electronic Timer	.66 V <sub>CC</sub>	.5%	5V	1.67V	10V	3.33V	A	X					X
RC556	Dual RC555	.66 V <sub>CC</sub>	1.0%	5V	1.67V	10V	3.33V	C			X	X		
RM556	Dual RM555	.66 V <sub>CC</sub>	.5%	5V	1.67V	10V	3.33V	A					X	

## Special Functions

Type	Description	Conversion Accuracy (Scale Factor)		Drift vs. Temp. (Typ.)	Supply Voltage (V)	Input Offset Voltage (mV)	Temp. <sup>1</sup> Range	Available Packages		
		Min.	Max.					T	NB	DE
RC4151	Multifunction VFC	.9	1.1	±100 ppm	+8 to +22	10	C	X	X	X
RM4151	Multifunction VFC	.9	1.1	±100 ppm	+8 to +22	10	A	X		X
RV4151	Multifunction VFC	.9	1.1	±100 ppm	+8 to +22	10	V	X	X	X
Type	Description	Frequency Limits Typ.		Accuracy	Supply Voltage (V)	Sweep Range	Temp. <sup>1</sup> Range	Available Packages		
		Min.	Max.					M	N <sup>2</sup>	P <sup>2</sup>
XR2207	VCO	.01 Hz	1 MHz	±3%	+8 to +26	1000:1	A,V		X	X
XR2207C	VCO	.01 Hz	1 MHz	±5%	+8 to +26	1000:1 (typ)	C		X	X
						Frequency Stability vs. Temp.				
XR2211	FSK Decoder	0.1 Hz	300 kHz	±3%	+4.5 to +26	±20 ppm typ	A,V	X	X	X
XR2211C	FSK Decoder	0.1 Hz	300 kHz	±1% (typ)	+4.5 to +26	±20 ppm typ	C		X	X
		Max. Central Frequency (Typ)	Freq. Drift of Temp. 0°C to +75°C	Supply Voltage (V)	Detector Bandwidth Max.					
XR2567	Dual Tone Decoder	500 kHz	±60 ppm/°C	+4.75 to +12	14% of f <sub>0</sub>	A,C	X	X		X

1. Operating Temperature Range: A = 55°C to +125°C, C = 0° to +70°C, V = -40°C to +85°C.

2. M and N packages conform to Raytheon DC type; P package conforms to Raytheon DB type.