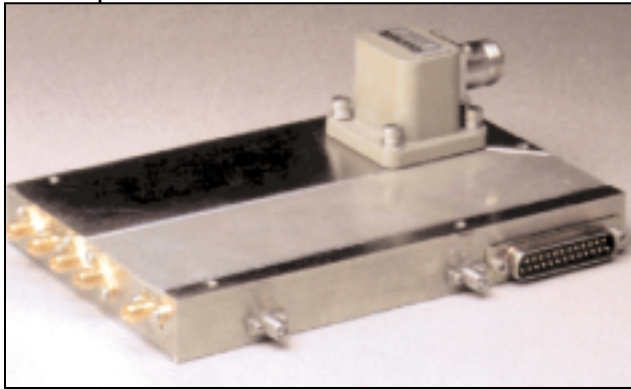




X-BAND RADAR LOW NOISE RECEIVER/ DOWN-CONVERTER



FEATURES

- 9-12 GHz Operating Frequency
- 2 Band Selectable IF Outputs
- High Gain
- Built-in AGC
- Low Noise Figure
- Temperature Compensated (-20°C-+80°C)
- Fast Switching Speed
- Fully Militarized
- Low Spurious Output
- BIT Capability
- Detector Output

PERFORMANCE

- Sensitivity -90 dBm
- 65 dB Gain Nominal
- 40 dB AGC
- 2.2 dB Noise Figure
- Super-Heterodyne Receiver
- 60 ns Rise Time max
- TTL Range Selection
- -50 dBc Spurious max

PACKAGING

- Hermetically Sealed
- WR80/SMA Interface
- Low Profile
- Finish: Nickel Plating

APPLICATIONS

- Transmitter for Avionics Surveillance
- Search and Rescue Radar

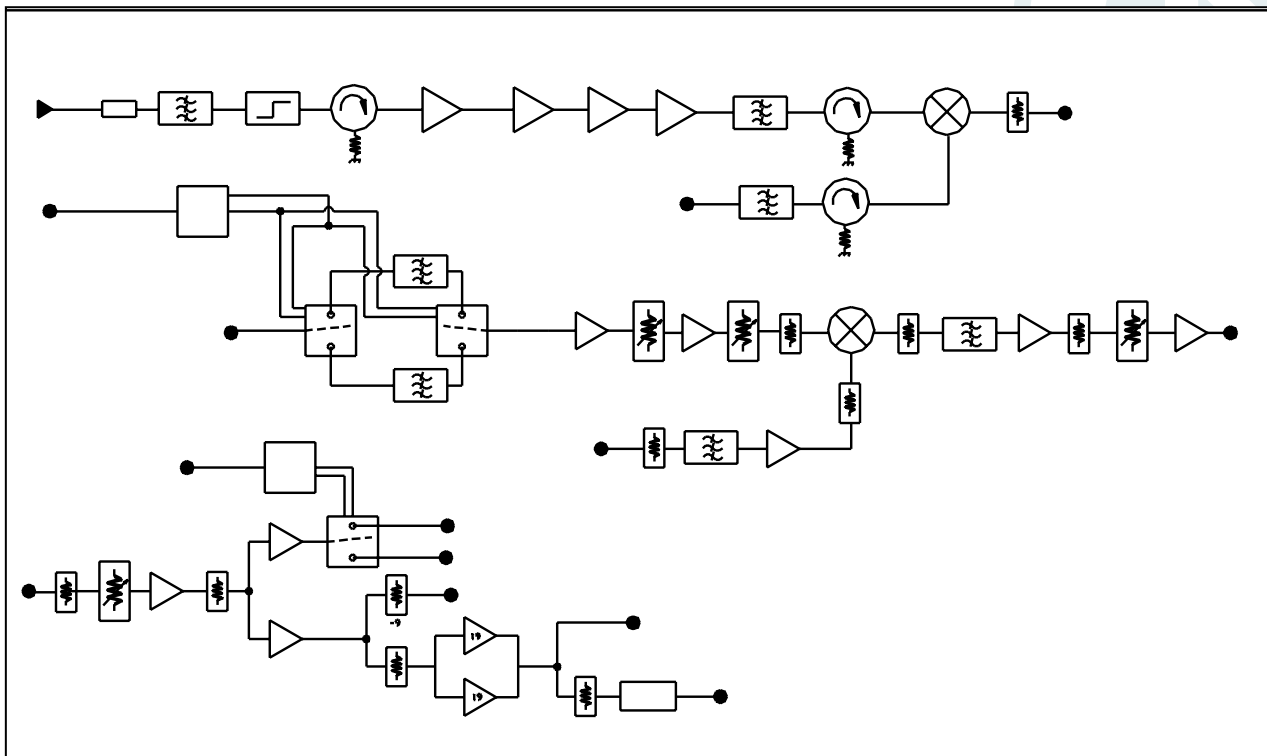
Nanowave Technologies Inc.

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OUTLINE DIAGRAM



CHARACTERISTICS

PARAMETER	UNITS	MIN.	MAX.	TYPICAL
Input RF Frequency	GHz	9.3	10.2	
Output Frequency	MHz	250	750	
LO1	GHz	11	12.5	
LO2	GHz			2.7
Noise figure	dB			2.2
Gain (0 dB attenuation)	dB	60	70	65
Output Power (P1dB)	dBm			11
Quadratic Phase Error	Degree		5	
Cubic Phase Error	Degree		3	
AGC				
Range	dB			40
Accuracy (over entire range)	dB			± 3
Rise Time	nS		60	
Spurious	dBc		-50	
Operating Temperature Range	°C	-40	+80	

Specifications are subject to change without notification. Consult Nanowave Technologies, Inc. for specific applications/requirements.