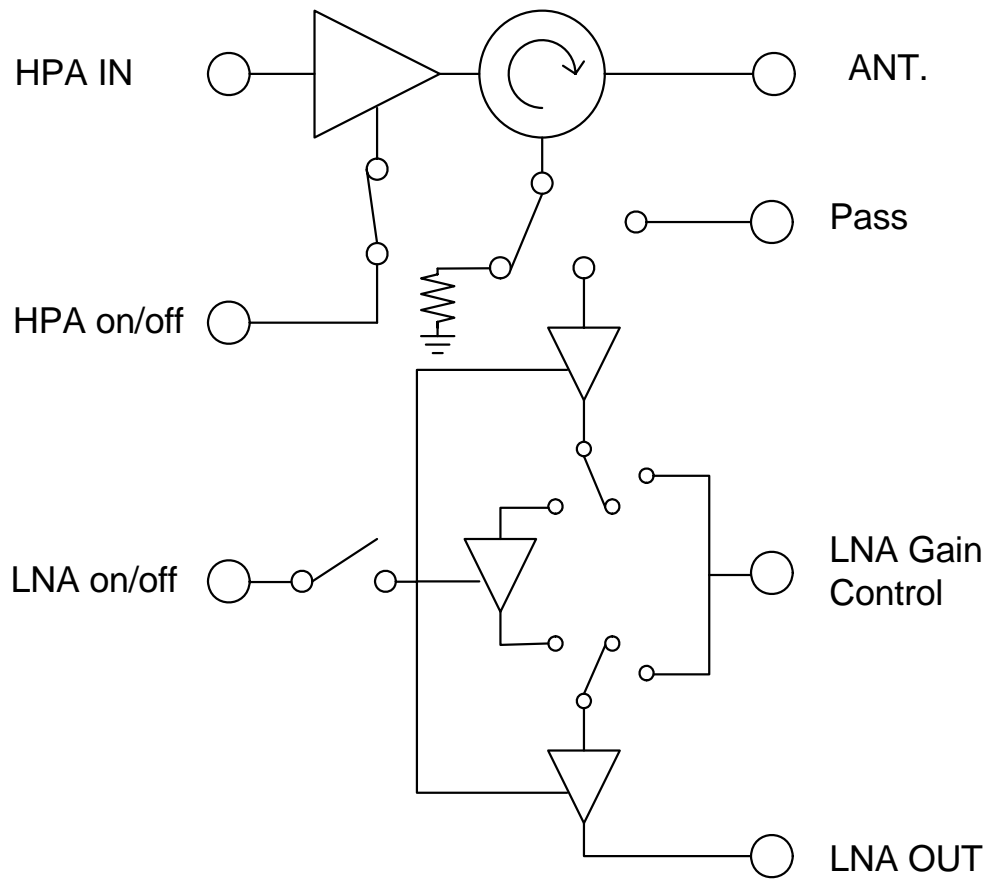


**Part Number : RS7090**
**Electrical Characteristics**

Parameter		Specification	Remark
Frequency Range		2330 ~ 2360 MHz	
HPA & Switch, LNA	Average Power	36dBm/1FA, AVG	PA + Switch
	Gain	40dB, +/-1dB Typ. <b>35 or 20dB, +/-1dB Typ.</b>	PA + Switch LNA + Switch
	Spectrum Mask	40dB (@4.77MHz), 45dB (@8.73MHz)	PA + Switch
	OIP3	32 dBm(@0dBm/Tone Out)	LNA
	Switching Speed	10μs(10% to 90% Output)	Switch
	Isolation	90 dB, Min.(Cross Isolation)	HPA←→LNA
	Noise Figure	2dB(LNA Full Gain)	Switch + LNA
Gain Flatness		peak to peak 1.0 dB , Max.	
Gain Variation With Temp.		±1.0 dB	
In/Output VSWR		Less than 1.3 : 1	LNA Output → 1:5 : 1
DC Input		+27V(2.2A, Max.), +6.5V(1A, Max.) -20V(0.1A, Max.)	+27V(1.8A, Typ.)
Operating Temperature		-10℃ ~ +65℃	Case Temperature
Dimension (W×D×H)		170 x 150 x 22(mm)	
RF I/O		SMA 2-Hole Straight Fe Male	
D_sub 15 Pin I/O Map		<ol style="list-style-type: none"> <li>1. Disable(Low enable)</li> <li>2. HPA Output Power Monitor ※ 4.0V±0.1 @ 36dBm, 100mV/dB±10mV</li> <li>3. Over Power Alarm (39dBm±0.5 dB Over , Normal low)</li> <li>4. VSWR Fail (Normal low) ※ Alarm @ More than 3 : 1 Over</li> <li>5. Up/Down Switch(Low_DL , High_UL)</li> <li>6. LNA Gain Control(Low→Gain High, High→Gain Low)</li> <li>7. N.C.</li> <li>8. N.C.</li> <li>9. DC +27V</li> <li>10. DC +27V</li> <li>11. GND</li> <li>12. GND</li> <li>13. GND</li> <li>14. DC +6.5V</li> <li>15. DC -27V</li> </ol>	

## Block Diagram



# Mechanical Drawings

