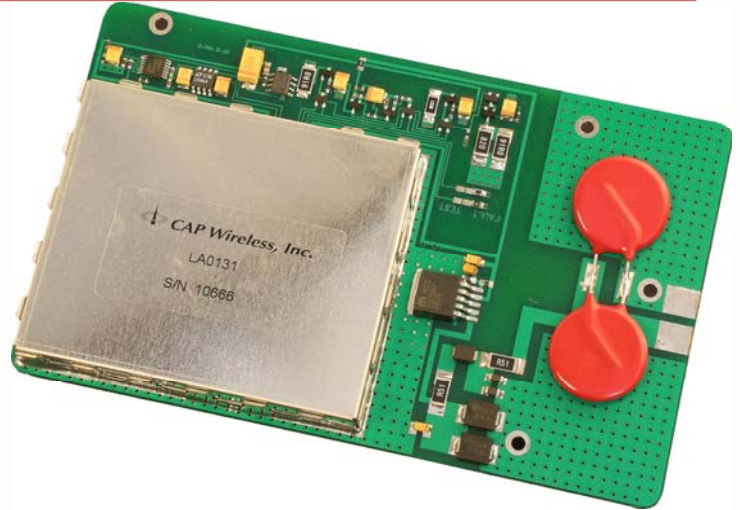


## Drop In PCS Low Noise Amplifier with Alarm and Bypass

### Key Features:

- PCS uplink frequencies
- Low 0.9 dB noise figure with bypass
- Fault detection, notification and bypass
- High dynamic range
- Designed for integration into tower mount units
- Integrated lightning protection



Electrical Parameters@12 VDC, 25°C Baseplate	Units	Min.	Typ.	Max.
Frequency	MHz	1850		1910
Gain	dB	12	13	14
Flatness	+/-dB		0.2	0.5
Noise Figure	dB		0.9	1.0
Input VSWR				1.3:1
Output VSWR				1.3:1
Output Power, 1 dB Gain Comp.	dBm	15		
Input Third Order Intercept Pt.	dBm	13	15	
Bias Current	mA	40	125	140
Insertion Loss (Bypass)	dB			1.0
Stability		Unconditional		
<b>Physical Parameters</b>				
Size		3.5" x 5.721"		
RF Connectors		Blindmate interface to Type N (F)		
DC Connectors		MOLEX 43045-0407		

### Alarm Detail

Fault Detail	Indicator	Bypass Status
Unit Functioning Properly	Current 40-140 mA	Amplifier
Single Device Failure	Current pulses between nominal operation (40-140 mA) for 2.5 seconds and 160-300 mA for 1.5 seconds	Amplifier
Multi Device Failure	Unit current 160-300 mA continuous	Bypass
Reset	On Power up	Amplifier

### Environmental

Operating Temperature	-40°C to +65°C
Storage Temperature	-40°C to +70°C
Altitude (Operating)	15 K ft
Altitude (Non-operating)	50 K ft