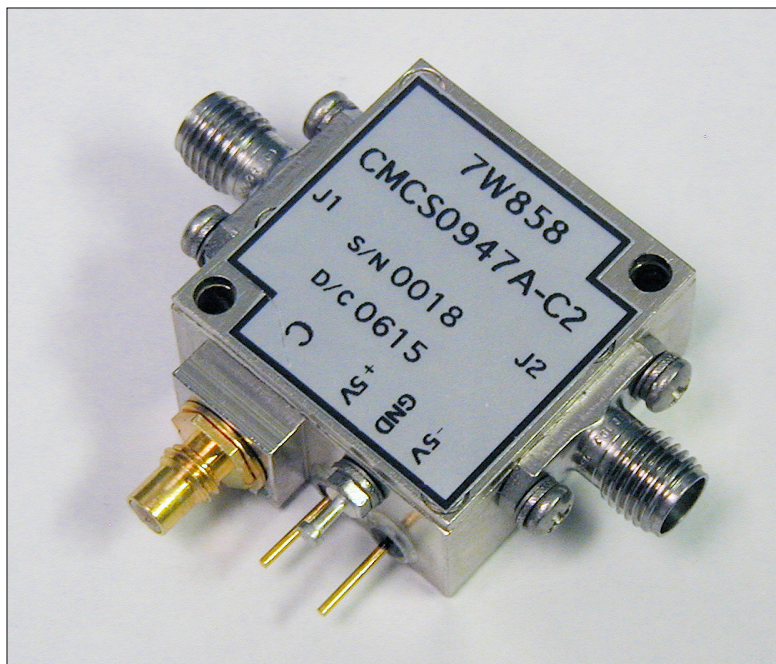


# 3 nsec RF Switch!

## The fastest in the world!?

*(Well, it is as far as we know...)*



### A Bold Claim

As engineers we know that the only guarantee about making a claim like this is that eventually someone will prove otherwise.

None the less, this is really exciting. Not only does this RF/Microwave switch have the fastest switching speed known to us, it can be toggled at rates approaching 200 MHz!

Try that with a traditional switch and you'll soon end up with something that's too hot to handle... Now THAT's cool.

Take one for a drive.

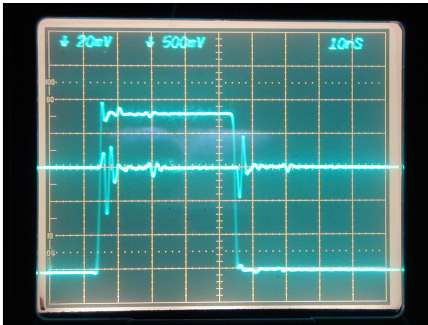
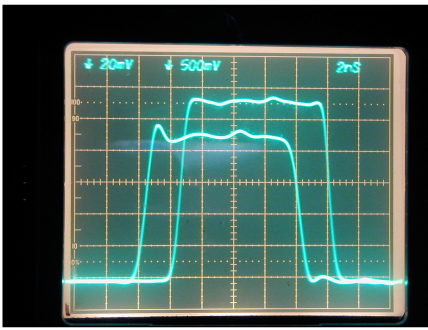
*-Greg Mau, President.*



Designed for use in conjunction with SpinCore Technologies, Inc.'s ([www.spincore.com](http://www.spincore.com)) PulseBlaster ESR-PRO (tm) in Electron Spin Resonance (ESR) applications. Other interfaces available.

CHARACTERISTIC	UNITS	0.1 to 2.0 GHz	2.0 to 4.0 GHz	4.0 to 8.0 GHz	8.0 to 12.0 GHz
Insertion Loss	dB (min)	2.2	2.6	3.3	4.1
VSWR (on/off)	x:1 (max)	1.3	1.4	1.4	1.7
Isolation	dB (min)	55	60	60	60

**BOLD CLAIMS BACKED WITH DEMONSTRATED PERFORMANCE**



**Switching Speed:** 3 nano seconds  
**Transition Time:** <1 nano second  
**Video Feed Through:** <30 mVolts

The upper left oscilloscope screen shot shows a Switching Speed of 3 nsec and Transition Times off less than 1 nsec.

The screen shot below it shows Video Feed Through of less than 30 mVolts.

This unit is capable of producing 3 nsec (or shorter) pulses.

**CONTROL**

Impedance 50Ω

Logic Positive

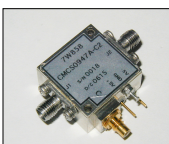
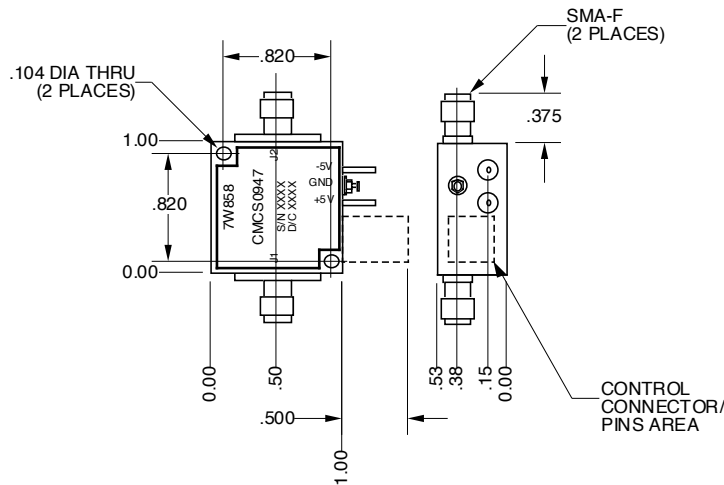
Voltage 0.0 to +2.4V

Connector SMB, SMC, (options) Solder Pins

ENVIRONMENTAL	UNITS	MIN	MAX
Temp, Operating	°C	-20	+70
Temp, Storage	°C	-40	+95
Humidity, Relative	%	---	90
Altitude	ft	---	50,000
Vibration, Sinusoidal			TBS
Vibration, Random			TBS

Disclaimer: As typical with early development models, specifications are subject to change. Please consult factory for specifics prior to ordering

OUTLINE:



**COMMITMENT TO CUSTOMER SATISFACTION:**

At Custom Microwave Component, Inc., we are totally committed to satisfying our customers. If you do not see exactly what you need, then call and give us the opportunity of proving it to you.  
 (510) 651-3434