

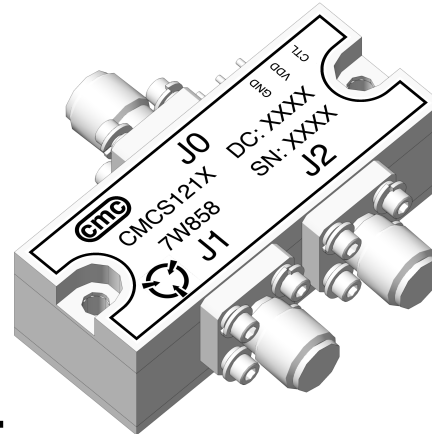


**CUSTOM
MICROWAVE
COMPONENTS INC**

HIGH-POWER NON-REFLECTIVE SPDT

KEY FEATURES

- Ultra Wideband
- Solid State
- Hot Switchable
- Internally Terminated
- 3.3 V and 5 V TTL/CMOS Compatible



ELECTRICAL PERFORMANCE

CHARACTERISTIC	FREQ (MHz)	CMCS1215	CMCS1216
Insertion Loss (dB Max)	1 - 1500	0.5	0.6
	1500 - 3500	0.8	0.9
	3500 - 4000	1.0	0.9
	4000 - 4500	1.2	1.0
Isolation (dB Min)	1 - 1500	70	
	1500 - 3000	60	
	3000 - 4500	40	
Return Loss ON/OFF (dB Min)	1 - 4500	15	
Power Handling CW (dBm Max)	1 - 2	40	34
	2 - 5	43	36
	5 - 10	45	42
	10 - 400	46	43
	400 - 4500	47	43
Power Handling Pulsed ¹ (dBm Max)	1 - 10	() ³	() ³
	10 - 400	() ³	48
	400 - 4500	52	48
Hot Switching ² (dBm Max)	1 - 10	() ³	() ³
	10 - 400	() ³	37
	400 - 4500	40	37

CHARACTERISTIC	CMCS1215	CMCS1216
Voltage Supply	3 V TO 5.5 V	
Current Draw	5 mA MAX	
Logic High Voltage	(0.75 x V _{DD}) V	
Logic Low Voltage	(0.35 x V _{DD}) V	
Switching Speed	10 μ s MAX	1.2 μ s MAX
Transition Time	5 μ s MAX	600 ns MAX
Start Up Time	1 ms MAX	
Max Rep Rate	1 kHz MAX	

- 1) 1% duty cycle 10 μ s pulse
2) Requires adequate heatsinking
3) Unknown at this time

ENVIROMENTAL RATING

Temperature:
Operating..... -55°C to +85°C
Storage..... -55°C to +125°C

Altitude:
MIL-STD-202-105,
Cond. B (50,000ft)

Humidity:
MIL-STD-202-103,
Cond. B (96 hrs. at 95%)

Vibration:
MIL-STD-202-214,
Cond. C

CONTROL LOGIC

LOGIC	PATH	
A	J1	J2
0	IL	ISO
1	ISO	IL

MECHANICAL DIMENSIONS

