Product Name: ACA5459P61C0

Doc. Name: Preliminary Short Spec.

Preliminary Short Specification for ACA5459P61C0

ELECTRICAL SPECIFICATIONS @ 50 Vdc, 50 ohms load condition, Tc ≒ 25 °C Specification Frequency Range 5400 ~ 5900 MHz With PW = 100usec, Duty = 10% Peak Output Power 1.2 kW min. @ Input Power = -15 dBm with Small Signal Gain 13 dB typ., 12 dB min Pulsed Signal Manufacturer Created Printed Document Number Revision 2018/12/25 2018/5/9 Α APCTECH

The Specifications is subject to change before finalization

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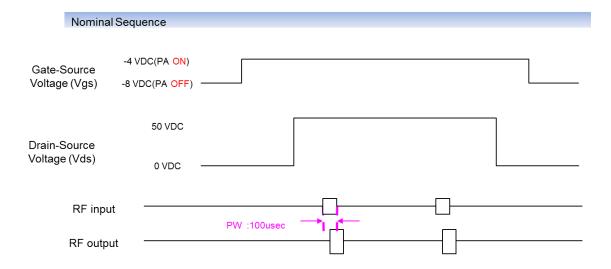
Large Signal Gain	9 dB typ., 8 dB min	@ Input Power = 52 dBm with Pulsed Signal	
Gain Flatness	± 0.5 dB max.	@ Input Power = 52 dBm with Pulsed Signal	
Duty Cycle	10 % max.		
Pulse Width (PW)	100 usec max.		
Amplitude Droop	0.5 dB typ. 1.0 dB max.	@ Input Power = 52 dBm with Pulsed Signal	
Harmonics(H2, H3)	Better than -40 dBc	In band	
Spurious	Better than -60 dBc	In band	
Input / Output VSWR	Less than 1.8:1		
Maximum load VSWR for amplifier working	5:1	Works with degraded performance	
Harmonics(H2, H3)	Better than -40 dBc	In band	
Spurious	Better than -60 dBc	In band	
Rising / Falling time	150 nsec max.	@ Input Power = 52 dBm with Pulsed Signal	
On/Off Switching Time	1 usec max.		
Operating Voltage	Vgs: -4VDC(ON) & -8VDC(OFF) Vds: 48 to 50VDC	A sequential circuit is required.	
Current Consumption	12 A avg. typ.	@ Pout = 1.2 kW Pulsed, PW =	
	60 A peak max.	100usec, Duty = 10%, 50 ohms load condition	
RF Input Signal Format	Pulsed	PW = 100usec, Duty = 10%	

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I/O Interface Pin Description		
Connector Type	Pin Name	Pin Description
DC Pads	Vgs	-4 VDC(ON), -8 VDC(OFF)
DC Pads	Vds	48 to 50VDC
GND	GND	GROUND



ENVIRONMENTAL SPECIFICATIONS				
Parameter	Specification	Remark		
Operating Plate Temperature	-30 ~ +75 ℃	At a hottest point of the mechanical plate of pallet amplifier module		
Storage Temperature	-40 ~ +85 °C			

MECHANICAL SPECIFICATIONS				
Parameter	Specification		Remark	
Dimension	200 * 250 * 60[TBD] mm	Requires	3300uF	100VDC
		Electrolytic	Capacitor	
Weight	Less than 1 kg			
Input Connector	50 Ohms MSL			
Output Connector	50 Ohms MSL			
DC Connector	DC Pads			
Cooling	Adequate Heat-sink required			

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MECHANICAL DRAWING

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