

Ultra-broadband Spatially Combined Power Amplifier

CHPA0618-1-G45



KEY PARAMETERS

Electrical Parameters	Units	Min.	Typ.	Max.
@ 9.5 V, 25° ambient				
Frequency	GHz	6		18
Gain	dB	45	48	
Gain variation 6-18 GHz	± dB		4	5
Gain variation, over operating temp.	± dB			
Input VSWR (50 ohms)		2.0:1		
Output VSWR (50 ohms)		2.5:1		
Efficiency	%		15	
Output power, saturated	watts		35	
Output power, 1 dB compressed	watts		30	
Spurious	dBc			
Current	amps		21 ¹	30 ²
Voltage	volts	9		10
Environmental Parameters	Units	Min.	Typ.	Max.
Temperature, operating	°C	0		50
Temperature, storage	°C	-20		85
Cooling	Fan-forced convection			
Altitude operating	K feet		50	
Physical Parameters	Units	Min.	Typ.	Max.
Dimensions	Inches	17.08 x 9.93 x 5.81		
RF connectors in/out		SMA (F)		
DC connectors		DA15 Male (Pin)		
DC pin configuration		1-6	+9.5 VDC	
		8	Module fault out (TTL high indicates fault)	
		9-14	Return	