



SIGNAL ANTENNA SYSTEMS

C-BAND PATCH ANTENNA (CPAE)

CPAE Series C-Band Patch Antennas are part of the Economy Series, engineered and optimized for **Telemetry, Tracking & Command (TT&C)** and small satellite communications applications. These compact, cost-effective antennas deliver **high radiation efficiency, +7 dBi nominal gain, robust circular polarization (RHCP or LHCP), low VSWR, and stable performance across the operating band**, all within a lightweight, low-profile form factor. The CPAE series is ideally suited for **CubeSat, nanosatellite, UAV, and other space-constrained aerospace and defense platforms**.

ECONOMY SERIES C-BAND PATCH ANTENNAS		
	PN: CPAE-500207-XX	PN: CPAE-530207-XX
Frequency Range	4,900 – 5,100 MHz	5,100 – 5,400 MHz
Gain (over Freq.)	+7.0 dBi	+7.0 dBi
3-dB Beamwidth	80° typ.	80° typ.
Polarization	RHCP (CPAE-500207-RH) or LHCP (CPAE-500207-LH)	RHCP (CPAE-530207-RH) or LHCP (CPAE-540207-LH)
Axial Ratio (over Freq.)	< 3.0 dB	< 3.0 dB
Axial Ratio (@ Center Freq)	1.0 dB typ	1.0 dB typ
VSWR	1.5:1 max	1.5:1 max
Impedance	50 Ohm	50 Ohm
Power Handling	5 W (CW)	5 W (CW)
MECHANICAL		
Dimensions	1.25"x1.25"x0.13"	
Weight	1.0 oz	
Mounting	4X Holes for 1-72 or M2 Screws	
Interface	SMP Jack (Limited Detent)	

