

Condor Pacific

Gyro Manufacture Repair Overhaul

Sub-miniature F-16 Series Rate Gyro

Condor Pacific's sub-miniature F-16 Series Rate Gyro was designed for the use on the flight control system on the F-16 fighter aircraft.

Condor Pacific PN 16100 was qualified to the F-16 procurement specification (16ZC006A) in conjunction with Hill Air Force Base. Over 2000 units have been delivered to the U.S. Air Force and many more units to foreign Air Forces.

PN 16100 gyros are individually and collectively interchangeable with the original Northrop gyros utilized for this application.

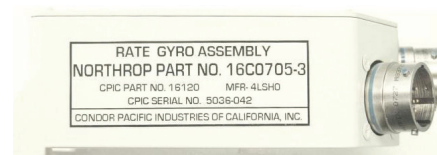
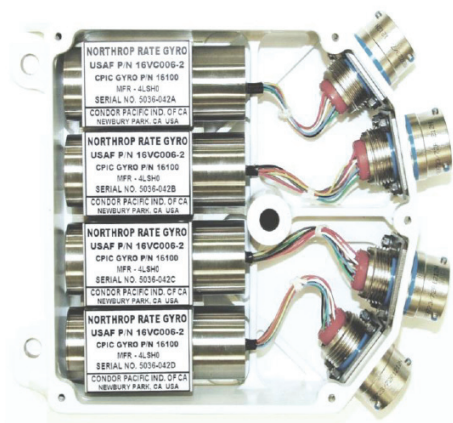
PN 16120 Quad boxes are available as shown.

Condor Pacific can perform acceptance tests on your gyro or quad package and replace gyros found to be out of specification limits. Additionally PN 16100 gyros can be repaired at our facility.

Condor Pacific maintains a Quality Assurance Program compliant with ISO 9001-2008, insuring the quality inherent in the design.

Cross Reference Chart

Item	NSN	Northrop PN	Condor PN
Gyros	6615010714513	16VC006-2	16100
Quad Gyro Package	6615010427834	16C0705-3	16120



Condor Pacific Industries, Inc.

905 Rancho Conejo Blvd, Newbury Park, CA 91320

Phone: 818-889-2150 FAX: 818-889-2160 E-mail: sales@condorpacific.com

Cage Code 4LSHO

Specifications

Range	±300o/sec	
Scale Factor	0.020 VAC/°/Sec ±5%	Over Temperature Range
Threshold	0.01o/sec	Over Temperature Range
Resolution	0.01o/sec	Over Temperature Range
Hysteresis	±0.5°/Sec	Over Temperature Range
In Phase Null	± 1.5°/Sec	Over Temperature Range
Linearity	0.5% To Half Scale, 2.0% to Full Scale	Over Temperature Range
Natural Frequency	47Hz Minimum	Over Temperature Range
Damping ratio	0.3 to 2.5 of Critical	Over Temperature Range
Linear Acceleration Sensitivity	0.1o/sec/g	Over Temperature Range
Cross Coupling	0.05°/Sec/°/Sec Cross Axis & Spin Axis	Over Temperature Range
Phase Shift	± 10°	Over Temperature Range
Voltage (AC)	26V, 800 Hz 2ø	
Starting Power	4.0 Watts	
Running Power	3.35 Watts	
Warmup Time	60 Seconds at Temperatures above -40°F 90 Seconds at Temperatures below -40°F	
Voltage (AC)	26V, 800Hz.	
Load Resistance	20KΩ ± 1%	
Output	Up to 6.6Volts, 800 Hz	
Phase Shift	± 10°	
Operating Temperatures	-65oF to +160°F, transient to 250°F for 10 Minutes	
Vibration	Max	Per MIL-STD-810
Shock	See 16ZC006A	Per MIL-STD-810
Acceleration	See 16ZC006A	Per MIL-STD-810
Other Environments	See 16ZC006A	Per MIL-STD-810
MTBF	12,000 hours	
Sealing	Hermetic	
Weight	150 grams	
Self-Test – Torquer Scale Factor	0.15°/Sec/mA, 150mA continuous, 600mA transient	
-- Spin Motor speed	Spin synchronous detection by monitor motor phase 2	

