TECHNICAL DATA SHEET | CAu10 | v3.3

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TABLE OF STANDARD PROPERTIES OF USE AND MEASUREMENT

The properties defined in the table below, are set up according to the technical conditions of use and measurement. These properties are warranted within their variation range and in compliance with the standard technical conditions of use.

Properties CAu10	Standard technical conditions	Unit	Nominal values	Min. values	Max. values
Notes			-		
Number of channel			*2 + push-pull*		
Function			*Standalone voltage amplifier board*		
Cooling			*Natural convection*		
Protection			*None*		
Main voltage	*Standard main supply*	*VDC*	*5 ... 15*		
Control input voltage	*Standard environment*	*V*	*0 ... 3,3*		
Min. output voltage	*Standard environment*	*V*	*5*		
Max. output voltage	*Standard environment*	*V*	*150*	*145.0*	*160.0*
Gain	*Standard environment*	*V/V*	*45*	*42.8*	*47.3*
Max. output current		*A*	*5.00E-03*	*3.70E-03*	*6.30E-03*
Max. output load capacitance		*µF*	*40*	*36.0*	*44.0*
Signal to noise ratio	*Noise measurement conditions*	*dB*	*70*	*80.0*	*90.0*
Unloaded output bandwith (-3dB)		*Hz*	*1000*	*900*	*1100*
Loaded Output bandwidth (-3dB)	*Standard load*	*Hz*	*9*	*8.6*	*9.4*
Input impedance		*kOhms*	*10*	*9.5*	*10.5*
Mass		*g*	*2.20E+00*	-	-
Dimensions		*mm*	*27*25*7*		
Connectors	*Hirose 2, 5, 8 pts, pitch 1.25 mm*				

**Bandwidth settled according to your specifications; by default 1 Hz.*

PROPERTIES STANDARD TECHNICAL CONDITIONS OF USE AND MEASUREMENT

Quasistatic excitation : AC voltage between –20 and 150 V at 1 Hz
Environment : Ambient temperature (15-25°C) and dry air (Humidity < 50 % rH)
Standard main supply : Main according to directive HD472; could be adapted to 110 VAC on request
Noise measurement conditions : Excitation 0.5 Vrms ; reading bandwidth 1 Hz to 1 kHz
Standard load : Actuator APA from series S or SM : 1.55 µF (load test may be different)

Any technical conditions of use, different from those defined above, can lead to temporary or definitive alterations of properties. Thank you to contact CEDRAT TECHNOLOGIES before using actuators under non standard technical conditions.

FACTORY TESTS CARRIED OUT

☒ Test 1: Load and discharge time
☒ Test 2: Linearity output voltage vs. input voltage

EXTRA FACTORY TESTS

☐ Test 3: Gain and linearity in closed loop
☐ Test 4: Step response in closed loop (sensor output voltage versus command voltage
☐ Test 5: Bode diagram

AVAILABLE OPTIONS

☐ [UC] Servo controller ☒ [PP] Push-pull