

Ten million level negative-ion generator



RoHS



The negative ion concentration of HO5-N502D-C as high as tens of millions of pcs/cc, which can activate oxygen molecules in the air, effectively improve air quality, and bring the negative ion ecological bath effect of fresh forest air to the human body. It can be widely used in household air purifiers, car air purifier, air conditioner and other devices.

FEATURES

- Input voltage range 10.8--13.2 VDC
- Output voltage up to -6000 VDC
- Negative ion concentration > 50 million pcs/cc
- Ozone concentration as low as 0.5ppm
- Ultra wide working temperature range: -25℃ to +75℃
- Meet CCC, CQC, CE certification standards

Selection Guide

Certification	Part No.	Input Voltage (VDC)	Input Current (mA)	Output Voltage (VDC)		Negative-ion Concentration (pcs/cc)	Ozone Concentration (ppm)
		Nominal (Range)	Typ.	Typ.	Guaranteed range	Typ.	Max.
--	HO5-N502D-C	12 (10.8~13.2)	10	-5000V	-4000V to -6000V	30 million@10cm	0.5

Electrical Performance

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Input Voltage Range		10.8	12.0	13.2	VDC
Input Current	Nominal 12 VDC input	--	10	20	mA
Negative-ion concentration	Nominal 12 VDC input, measured at a distance of 5cm from the negative-ion tester	--	50 million	--	pcs/cc
	Nominal 12 VDC input, measured at a distance of 10cm from the negative-ion tester	--	30 million	--	
	Nominal 12 VDC input, measured at a distance of 20cm from the negative-ion tester	--	10 million	--	
Ozone concentration	Nominal 12 VDC input, measured after 3 minutes of power in the 6.7L sealed box	--	--	0.5	ppm

Environmental Characteristics

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		-25	--	+75	℃
Operating Temperature Rise	Shell operating temperature rise	--	--	45	K
Storage Temperature		-40	--	+85	℃
Storage Humidity	Non-condensing	5	--	85	%RH

Reliability Performance

Item	Operating Conditions	Specifications
Vibration	10-150Hz, 5G, 0.75mm. along X, Y and Z, 6 hours	After the test, there is no abnormality in electrical and mechanical properties
Temperature Shock	-40~+85℃, 500 temperature shock cycles	
High Temperature Storage	85±2℃, 500 hours	
High Humidity Storage	85%RH, 75±2℃, 500 hours	
Cryogenic Storage	-40±2℃, 500 hours	
High Temperature Aging	75±2℃, 500 hours	
High Humidity Aging	71±2℃, 80%RH, 500 hours	

Other Performance

EMI	Conductive radiation	CISPR32/EN55032 CLASS A (see Fig.1)
	Radiation disturbance	CISPR32/EN55032 CLASS B
EMS	Electrostatic discharge	IEC/EN61000-4-2 Contact ±6kV perf. Criteria B

1. Typical EMC recommendation circuit

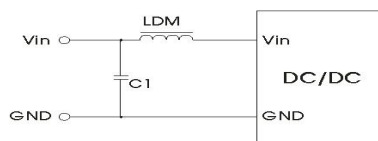


Fig.1

Input Voltage		12 VDC
EMI	C1	1.0μF /16V
	LDM	220μH

Appearance Dimension

Dimensions	37.0*23.0*15.0mm (see Fig.2)
Weight	25g (Typ.)

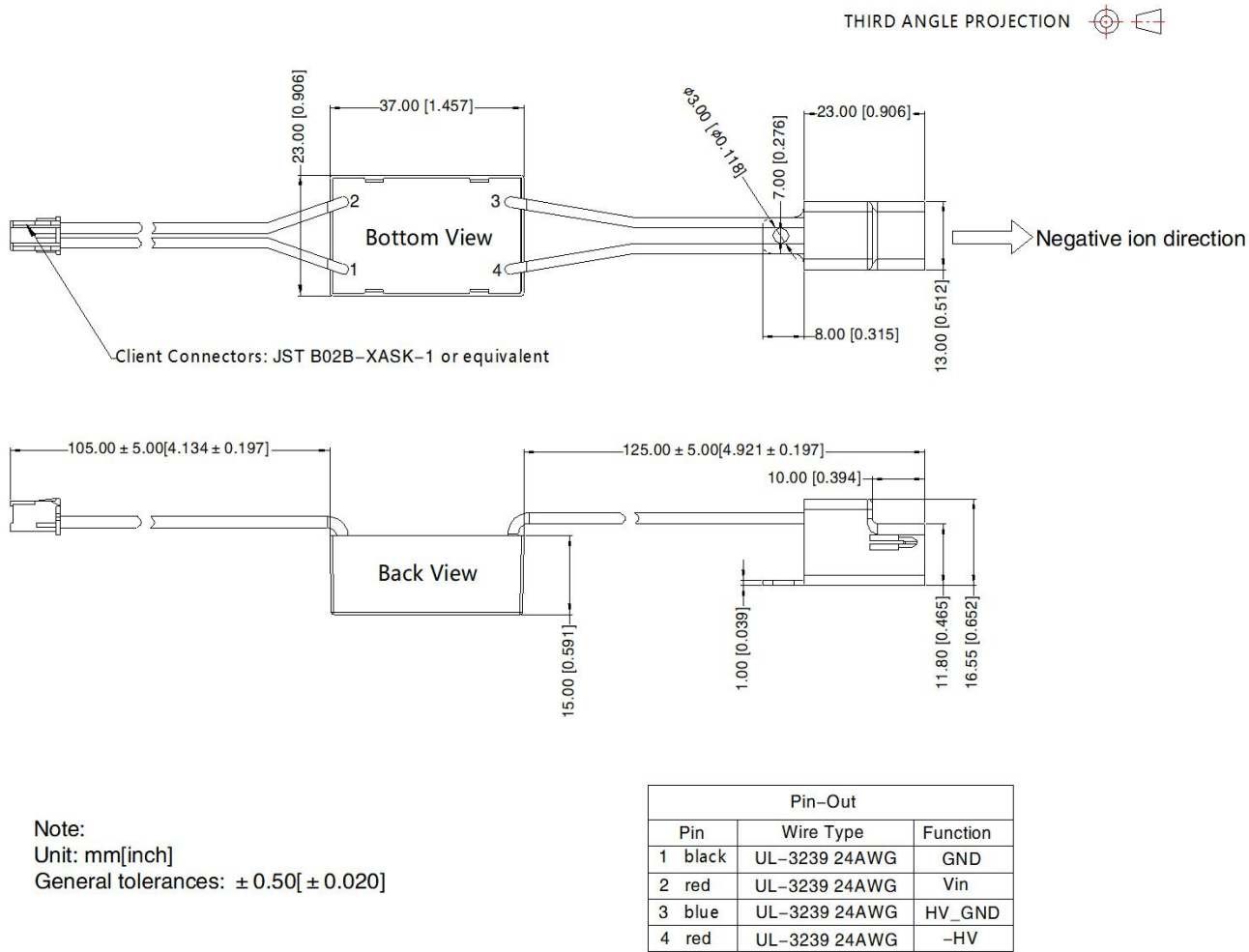


Fig.2

Notes:

- For additional information please refer to Product Packaging Information. Packaging bag number: 58210175;
- Unless otherwise specified, parameters in this datasheet were measured under the conditions of $T_a=25^{\circ}\text{C}$, humidity<75%RH with nominal input voltage and rated output load;
- All index testing methods in this datasheet are based on our company corporate standards;
- We can provide product customization service;
- Products are related to laws and regulations: see "Features" and "EMC";
- Our products shall be classified according to ISO14001 and related environmental laws and regulations, and shall be handled by qualified units.

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