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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Compact Fan Type Ionizer High-frequency AC Method ER-Q SERIES

General terms and conditions...... F-7

Glossary of terms..... P.1497



LASER SENSORS

FIBER SENSORS

PHOTOELECTRIC SENSORS	
MICDO	



AREA SENSORS

LIGHT CURTAINS/ SAFETY COMPONENTS PRESSURE / FLOW SENSORS INDUCTIVE PROXIMITY SENSORS PARTICULAR

USE SENSORS SENSOR OPTIONS

WIRE-SAVING UNITS WIRE-SAVING SYSTEMS

MEASUREMENT SENSORS



LASER MARKERS PLC

HUMAN MACHINE INTERFACES
ENERGY CONSUMPTION VISUALIZATION COMPONENTS
FA COMPONENTS
MACHINE VISION SYSTEMS

UV CURING SYSTEMS



panasonic.net/id/pidsx/global

Spot charge removal without compressed air

Miniature, ultralight, fast charge removal

A perfect fit for installation in other devices.

- Dimensions: W65 × H60 × D33 mm
 - W2.559 × H2.362 × D1.299 in
- Net weight: 110 g approx.
- Charge removal Time (± 1,000 V \rightarrow ± 100 V): 1.5 sec approx. (typical)

Adjustable

Includes volume adjuster to change fan blowing to meet your needs.



ER-X

ER-TF

ER-VS02 ER-VW ER-Q ER-F Safe design

The LED display and output indicate maintenance timing and problems with the fan.

Simple maintenance

Assembled and disassembled in a single touch, reducing steps required to replace parts or clean filters.



Discharge needle unit



Selection guide P.1157~

General precautions P.1501

Conforming to EMC Directive

Freely mounted: No air hoses necessary

Mountable like a sensor in cell workbenches or inside devices.





ER-QMS1

MS-AJ1-A

1198



CHARGE REMOVAL CHARACTERISTICS (TYPICAL)

• Measured using a 150 mm × 150 mm 5.906 in × 5.906 in CPM (charge plate monitor). (At center of CPM)

Charge removal field (horizontal direction)





Charge removal field

PRECAUTIONS FOR PROPER USE

Refer to p.1501 for general precautions.

- Never use this product in a device for personnel protection.
- · In case of using devices for personnel protection, use products which meet laws and standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each region or country.
- · Do not use this product in places where there may be a danger of flammable or combustible items being present.

Guide
Static Removers
Cleaning Box
Pulse Air-gun
Electrostatic Sensor

- ER-X ER-TF ER-VS02 ER-VW
- ER-Q ER-F

SPECIFICATIONS

\sim	Туре	Compact fan type	
Item	Model No.	ER-Q	
Charge removal time ($\pm 1,000 \text{ V} \rightarrow \pm 100 \text{ V}$)		1.5 sec. approx. (Note 2)	
Ion balance		±10 V or less (Note 2)	
Power supply voltage		24 V DC ±10%	
Power consumption		200 mA or less	
Discharge method		High-frequency AC method	
Discharge output voltage		±2 kV approx.	
Max. fan speed		6.4 m/s (Note 2)	
Max. fan volume		0.2 m³/min.	
Output(CHECK, ALARM)		NPN transistor / open collector • Max sink current: 50 mA • Applied voltage: 30 V DC or less (between output terminal and 0 V) • Residual voltage: 1 V or less (at input current of 50 mA)	
	Output operation	Check: On when discharge check (Note 3) detected Off at all other times Error: Off when discharge error or fan error (Note 3) detected On at all other times	
	Short-circuit protection	Incorporated	
Indicators		Discharge (DSC): Green LED, Alarm (ALARM): Red LED	
Ozone generation amount		0.02 ppm or less (Note 2)	
Ambient temperature		0 to +50 °C +32 to +122 °F (No dew condensation), Storage: -10 to +65 °C +14 to +149 °F	
Ambient humidity		35 to 65% RH (No dew condensation), Storage: 35 to 65% RH	
Vibration resistance		10 to 150 Hz frequency, 0.75 mm 0.030 in amplitude in X, Y and Z directions for two hours each	
Grounding method		C (capacitor) grounding	
Material		Enclosure: PBT, Discharge needle: Tungsten	
Weight		Net weight: 110 g approx.	
Accessory		Connector for wiring: 1 set [Manufactured by Molex: Housing (5557-08P). Terminal (5556T)]	

Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +20 °C +68 °F.

2) Typical value at 100 mm 3.937 in from directly in front of air outlet, fan speed MAX., with no filter installed.

3) Discharge check: Drop in discharging status detected. Discharge error: Abnormal discharge detected. Fan error: Fan operating problem detected.

I/O CIRCUIT AND WIRING DIAGRAMS

I/O circuit diagram



Symbols ... D1: Reverse supply polarity protection diode D2, D3: Input protection diode ZD1, ZD2, : Surge absorption zener diode Tr1, Tr2, : NPN output transistor

Connector terminal arrangement

87	6	5
43	2	1
(Front	view)

Terminal No.	Description	Color code
1	0 V	Blue
2	COM (–)	
3	N.C. (no connection)	
4	F.G.	Green
5	+24 V	Brown
6	COM (+)	
7	Check output	Orange
8	Error output	Black

Compact Fan Type Ionizer **ER-Q SERIES**

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