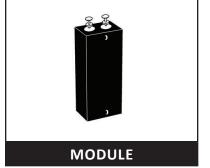
SHIPBOARD/AC POWER BUS VOLTAGE SUPPRESSOR

RTCA DO-160G COMPLIANT PRODUCT

100KS200CNH



DESCRIPTION

The 100KS200CNH is designed in accordance with DOD-STD-1399, section 300 interface standard and MIL-STD704A for shipboard systems, electrical power and alternating current. When large voltage transients endanger voltage sensitive components, this device provides reliable protection against power interruptions and shore power switch-over. This module can be screened upon request.

FEATURES

- RTCA DO-160G COMPLIANT PRODUCT
- DOD-STD-1399 & MIL-STD-704A Compliant
- 100 kilowatts Peak Pulse Power per Line (tp = 1.2/50μs)
- Each Device 100% Tested
- 200 Volts Bidirectional

MECHANICAL CHARACTERISTICS

- Plastic Encapsulated Sub-Assemblies in a Sealed Epoxy Filled Package
- Approximate Weight: 40 grams
- Flammability Rating UL 94V-0
- Screening Available Upon Request
- Part Marking: Logo, Date Code, Part Number

- APPLICATIONS
- Aircraft & Shipboard AC Power Protection (Line-Ground)

100KS200CNH

TYPICAL DEVICE CHARACTERISTICS

05646

RTCA DO-160G COMPLIANT PRODUCT

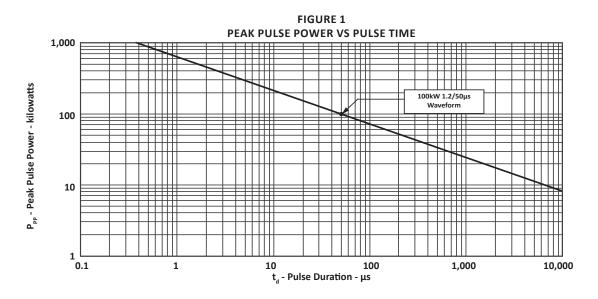
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified						
PARAMETER	SYMBOL	VALUE	UNITS			
Peak Pulse Power (tp = 1.2/50µs) - See Figure 1	P _{pp}	100	kilowatts			
Operating Temperature	TL	-55 to 150	°C			
Storage Temperature	T _{stg}	-55 to 150	°C			
Steady State Power Dissipation	-	8.0	Watts			

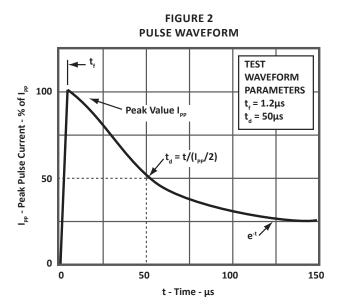
ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified							
PART NUMBER	RATED STAND-OFF VOLTAGE V _{WM} VOLTS	MINIMUM BREAKDOWN VOLTAGE @5mA V _(BR) VOLTS	MAXIMUM CLAMPING VOLTAGE (Fig. 2) @ I _{pp} V _c VOLTS	MAXIMUM LEAKAGE CURRENT @V _{WM} Ι _D μΑ	MAXIMUM PEAK PULSE CURRENT 8/20μs Ι _{ΡΡΜ} AMPS		
100KS200CNH	180	200	335	0.5	300		

100KS200CNH

TYPICAL DEVICE CHARACTERISTICS

RTCA DO-160G COMPLIANT PRODUCT





POWER DERATING CURVE 100 Peak Pulse Power 1.2/50µs 80 % Of Rated Power 60 40 20 Average Power 0 0 25 50 75 100 125 150 T_L - Lead Temperature - °C

FIGURE 3

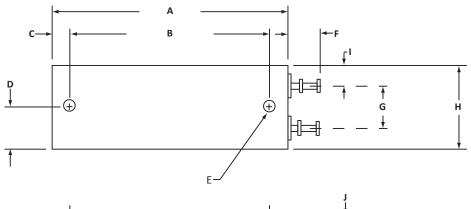
100KS200CNH

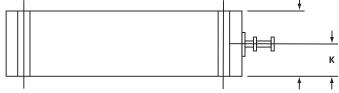
PACKAGE INFORMATION

05646

RTCA DO-160G COMPLIANT PRODUCT

OUTLINE DIMENSIONS						
DIM	MILLIMETERS		INCHES			
	MIN	MAX	MIN	MAX		
А	62.74	64.26	2.47	2.53		
В	53.34	54.48	2.10	2.145		
С	4.32	5.33	0.17	0.21		
D	10.54	12.07	0.415	0.475		
E	3.18 DIA		0.125 DIA			
F	8.26	9.27	0.325	0.365		
G	11.43		0.45			
Н	21.84	23.37	0.86	0.92		
I	5.59		0.22			
J	16.51	17.53	0.65	0.69		
к	8.	51	0.335			
NOTES 1. Dimensions "E", "G", "I" and "K" are nominal.						





COMPANY INFORMATION

RTCA DO-160G COMPLIANT PRODUCT

100KS200CNH

COMPANY PROFILE

In business more than 25 years, ProTek Devices[™] is a privately held semiconductor company. The company offers a product line of overvoltage protection and overcurrent protection components. These include transient voltage suppressor array (TVS arrays) avalanche breakdown diode, steering diode TVS array and electronics SMD chip fuses. These components deliver circuit protection in electronic systems from numerous overvoltage and overcurrent events. They include lightning; electrostatic discharge (ESD); nuclear electromagnetic pulses (NEMP); inductive switching; and electromagnetic interference (EMI) / radio frequency interference (RFI). ProTek Devices also offers LED wafer die for ESD protection and related high frequency products. ProTek Devices is an ISO 9001 certified company.

CONTACT US

Corporate Headquarters

2929 South Fair Lane Tempe, Arizona 85282 USA

By Telephone

General: 602-431-8101 Sales: & Marketing: 602-414-5109 Customer Service: 602-414-5114 Product Technical Support: 602-414-5107

By Fax

General: 602-431-2288

By E-mail:

Asia Sales: <u>asiasales@protekdevices.com</u> Europe Sales: <u>europesales@protekdevices.com</u> U.S. Sales: <u>ussales@protekdevices.com</u> Distributor Sales: <u>distysales@protekdevices.com</u> Customer Service: <u>service@protekdevices.com</u> Technical Support: <u>support@protekdevices.com</u>

ProTek Devices (Asia Pacific) Pte. Ltd.

8 Ubi Road 2, #06-19 Zervex Singapore - 408538 Tel: +65-67488312 Fax: +65-67488313

Web

www.protekdevices.com

COPYRIGHT © ProTek Devices 2022 - This literature is subject to all applicable copyright laws and is not for resale in any manner.

SPECIFICATIONS: ProTek reserves the right to change the electrical and or mechanical characteristics described herein without notice.

DESIGN CHANGES: ProTek reserves the right to discontinue product lines without notice and that the final judgement concerning selection and specifications is the buyer's and that in furnishing engineering and technical assistance. ProTek assumes no responsibility with respect to the selection or specifications of such products. ProTek makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ProTek assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability without limitation special, consequential or incidental damages.

LIFE SUPPORT POLICY: ProTek Devices products are not authorized for use in life support systems without written consent from the factory.