

SHIPBOARD/AC POWER BUS VOLTAGE SUPPRESSOR

APPLICATIONS

- ✓ AC Power Protection
- ✓ Shipboard (Line-Line) Protection
- ✓ Differential AC Power Bus
- ✓ Aircraft AC Power Bus

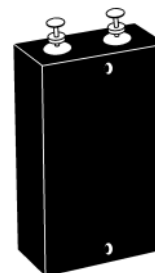
FEATURES

- ✓ *Meets the Following Military Specifications:*
 - DOD-STD-1399
 - MIL-STD-704A
- ✓ 60 & 90 kilowatts Peak Pulse Power per Line (tp=1.2/50µs)
- ✓ Each Device 100% Tested
- ✓ 200 Volts Bidirectional

MECHANICAL CHARACTERISTICS

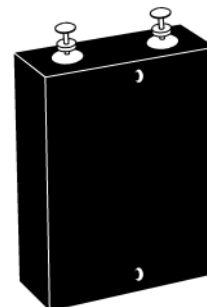
- ✓ Hermetically Sealed Glass to Metal Sub-Assemblies
- ✓ Weight 50 grams (Approximate)
- ✓ Flammability rating UL 94V-0
- ✓ Device Marking: Logo & Part Number
- ✓ Screening Available Upon Request - The 60 & 90KS series can be screened upon request for military requirements in accordance with MIL-PRF-19500 (applicable test). Standard screening is available based on the following options:
 - H1 - Submodule Screening per test plans 05231 & 05232
 - H2 - Submodule & Module Screening per test plan 05233
 - H3 - Submodule & Module Screening, Module Group B & C Lot Testing per test plans 05234 & 05235

60,000 WATTS



60KS200C

90,000 WATTS



90KS200C

MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp = 1.2/50µs) - See Figure 1	P _{PP}	60 & 90	kilowatts
Operating Temperature	T _J	-55°C to 150°C	°C
Storage Temperature	T _{STG}	-55°C to 150°C	°C
Steady State Power Dissipation @ 50°C	T _A	10.0	Watts

DEVICE CHARACTERISTICS

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified					
PART NUMBER	RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE	MAXIMUM CLAMPING VOLTAGE (See Fig. 2)	MAXIMUM LEAKAGE CURRENT	MAXIMUM PEAK PULSE CURRENT (See Fig. 2)
	V_{WM} VOLTS	@ 1mA $V_{(BR)}$ VOLTS	@ I_{PP} V_C VOLTS	@ V_{WM} I_D μA	I_{PPM} AMPS
60KS200C	180	200	335	10	180
90KS200C	180	200	280	0.5	180

**FIGURE 1
PEAK PULSE POWER VS PULSE TIME**

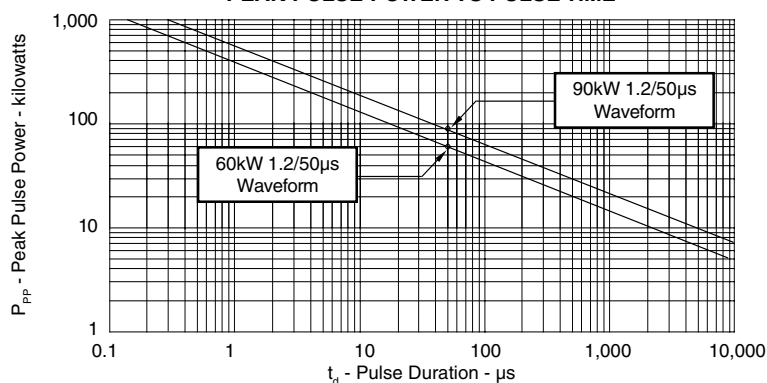


**FIGURE 2
PULSE WAVE FORM**

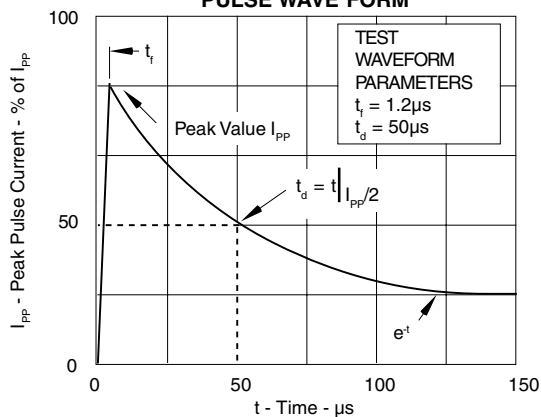
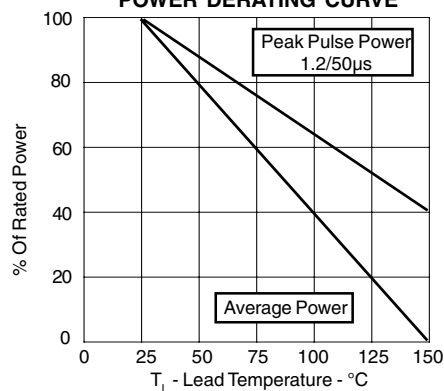


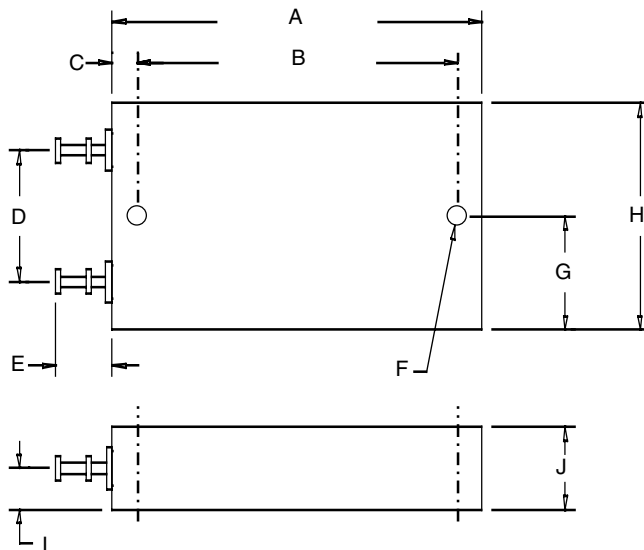
**FIGURE 3
POWER DERATING CURVE**



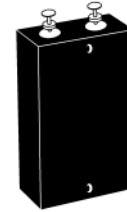
60KS200C & 90KS200C

PACKAGE OUTLINE & DIMENSIONS

60KS200C PACKAGE OUTLINE



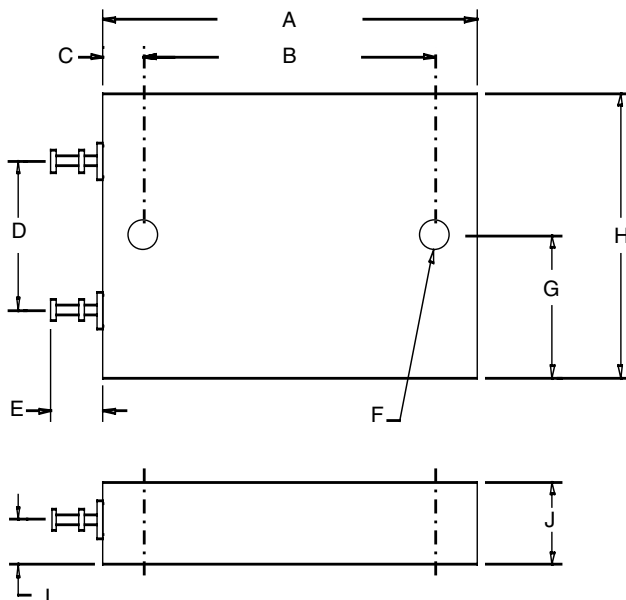
60KS200C



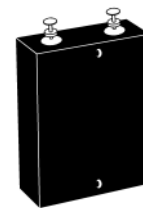
DIMENSIONS

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	56.38	57.91	2.22	2.28
B	49.02	50.03	1.93	1.97
C	3.43	4.17	0.135	0.165
D*	20.32	20.32	0.800	0.800
E	8.26	9.27	0.325	0.365
F*	3.18 DIA	3.18 DIA	0.125 DIA	0.125 DIA
G	16.76	18.29	0.660	0.720
H	34.16	35.69	1.345	1.405
I*	6.35	6.35	0.250	0.250
J	11.94	13.46	0.470	0.530

90KS200C PACKAGE OUTLINE



90KS200C



DIMENSIONS

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	-	63.50	-	2.50
B	47.75	48.77	1.880	1.920
C	6.10	6.60	0.240	0.260
D	24.89	25.91	0.980	1.020
E	-	10.16	-	0.400
F	4.90 DIA	5.21 DIA	0.193 DIA	0.205 DIA
G	22.66	23.06	0.892	0.908
H	45.34	46.10	1.785	1.815
I	6.48	7.49	0.255	0.295
J	-	13.97	-	0.550

Outline & Dimensions: Rev 0 - 4/02, 06033

Note*: Dimensions are nominal.

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