



AEROSPACE

IGNITION EXCITER

Models CH92106-4 and CH92106-5

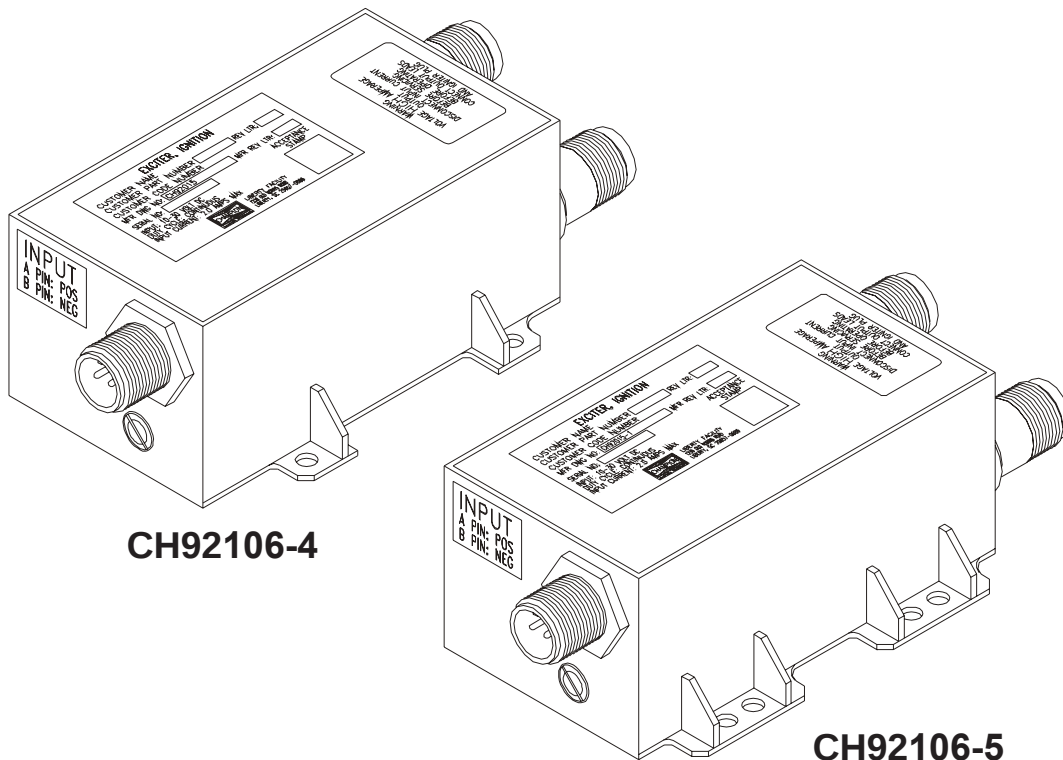
The CH92106-4 and CH92106-5 ignition exciter designs are the latest improvement over prior conventional and early solid state exciter technologies. The CH92106-4 and CH92106-5 provide dual redundant output, and state of the art, medium (8-13kV) tension ignition system performance in a compact package. The ignition exciters are constant spark rate, 100 percent solid state exciters which offer maximum value ignition performance. Additionally, surface mount technology (SMT) component parts are used whenever practical to minimize exciter weight, manufacturing cost, and package volume.

The CH92106-4 and CH92106-5 ignition exciters incorporate the revolutionary Spider Switch. This switching technology allows Champion Aerospace, Inc. to offer a solid state exciter discharge performance equal to spark rate technology (spark duration, di/dt, and high tension output) without limited life, packaging or thermal management concerns of spark gaps.

The CH92106-4 and CH92106-5 ignition exciters meet EMI filtering requirements of RTCA-DO-160C and environmental standards of MIL-STD-810. This is one of a complete line of ignition exciters produced by Champion Aerospace, Inc.

SPECIFICATIONS

INPUT VOLTAGE	10-30	Vdc	OPERATIONAL TEMPERATURE RANGE ¹	
INPUT CURRENT			(¹ Capable of continuous duty -65 to +90° C, Intermittent duty 91 to +121° C)	
(Both Channels Together)	6.5 Amps	(Max)	 -54° to +93°	C
			 Capable of Operation to 121°	C
OUTPUT IONIZATION VOLTAGE	8	kV (Min)	WEIGHT	2.1
SPARK RATE	3	SPS	MOUNTING POSITION	Any
(Over Entire Input Voltage & Environmental Range)			SIZE	8.12 L x 2.88 W x 2.93 H
DUTY CYCLE	Continuous		NO. OUTPUTS/TYPE	2
PEAK POWER	35	kW (Min)	DISCHARGE WAVEFORM	Unidirectional
ALTITUDE CAPABILITY	25,000	Feet	DISCHARGE DURATION	70
				μS (Min)



CH92106-4

CH92106-5

TECHNICAL NOTES

