

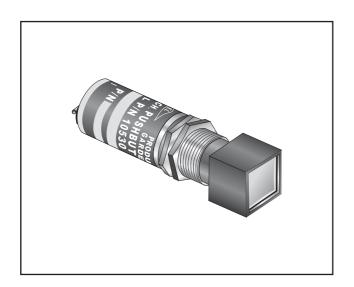
JAY-EL KEYBOARD P/N 10530 ILLUMINATED PUSHBUTTON SWITCH MIL-S-22885/79 ON THE **QUALIFIED PRODUCTS LIST**



KEYBOARD P/N 10530



MIL-S-22885/79 on the Qualified Products List



ENGINEERING SPECIFICATIONS

ELECTRICAL

Switch Contacts: Silver alloy contacts are a standard. Gold contacts are recommended for reliable low level switching below 1.0 amperes.

Switch Ratings:

SILVER CONTACTS Maximum 2/

	Sea	50,000 FT		
Load	28VDC	28VDC		
Resistive Inductive Lamp 1/	7.0 Amps 4.0 Amps 2.5 Amps	7 Amps 7 Amps 2 Amps	4.0 Amps 2.5 Amps 2.5 Amps	

1/Inrush, 10:1 for 20 milliseconds maximum.

2/ Minimum conditions are dependent on use and atmospheric conditions. Contact Jay-El for Detailed applications information.

GOLD CONTACTS

Gold Contacts: Sea level to 50,000 feet, 28V, 1Amp. Res., .5 Amp Ind.

Contact Resistance: 25 milliohms maximum in accordance with MIL-S-22885 for switch contacts and 1 Ohm maximum in accordance with MIL-S-22885 for lamp contacts.

Electrical Life: Para. 3.6.24 of MIL-S-22885

Lamp Type: T1 3/4 midget flange base incandescent is standard.

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DESIGN FEATURES

The Keyboard Switch is an illuminated pushbutton switch designed and qualified for military, airborne and commercial computer applications. Dry circuit or power switch available.

Solder or Printed Circuit Board terminations in single or two pole double throw switching.

Lighting and display techniques are available to meet military and commercial requirements.

Seven different pushbutton sizes Sealed or Un-sealed.

LEGEND REQUIREMENTS

Many combinations of character of background illumination may be accomplished, including sunlight readable Display Type 8. NVIS Compatible lighting contact factory.

MECHANICAL

Light Weight : 18.3 grams maximum Actuation Force : 22 ± 4 oz.; unsealed

24 ± 8 oz.; sealed $:.125 \pm .060$

Pre-travel Over-travel : .015 minimum

: 1 and 2 pole momentary Switch Action Mounting Torque : $5 \pm .5$ inch lbs.

Mechanical Life 100,000 cycles

Pushbutton Extraction Force : 2 to 8 lbs.

ENVIRONMENTAL

Temperature high: +85°C Low: -55°C

Humidity: Per MIL-STD-202, Metrhod 106

Explosion: Per Per MIL-STD-810, Method 511,

Procedure 11

Shock: 75 G's, 6 milliseconds, Half Sine and

MIL-S-901C

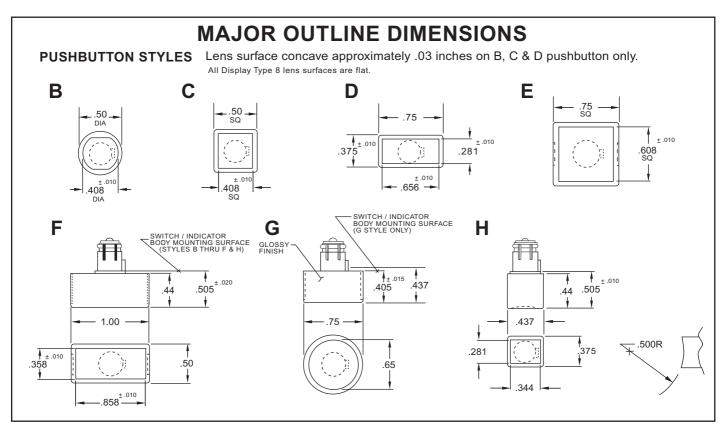
EMI: Per Per MIL-STD-285

Vibration: 10 to 500 @ 0.06DA or 10g (peak)

which ever is less.

Basic switch contacts per MIL-S-8805

ALL INFORMATION PUBLISHED IN THIS CATALOG IS EFFECTIVE AT TIME OF PUBLICATION AND IS SUBJECT TO CHANGE WITHOUT NOTICE.



ORDERING PROCEDURE - Fill out Preliminary Product Specification using Tables below and submit to Jay-El for Customer Code assignment.

TABLE 1 BASIC P/N	TABLE 2 MOUNTING TYPE	TABLE 3 BEZEL COLOR	TABLE 4 SPLIT GROUND	TABLE 5 EMI	TABLE 6 DRIP PROOF SEAL	TABLE 7 RETAINED PUSHBUTTON	TABLE 8 PUSHBUTTON STYLE	TABLE 9 SWITCH POLES	TABLE 10 CONTACTS	
10530	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	YES NO	YES NO	NOT APPLICABLE	B C D E F G H	0 INDICATOR 1 1 SPDT 2 2 SPDT	(ABOVE 1 AMP) S SILVER CONTACTS	(BELOW 1 AMP) G GOLD CONTACTS

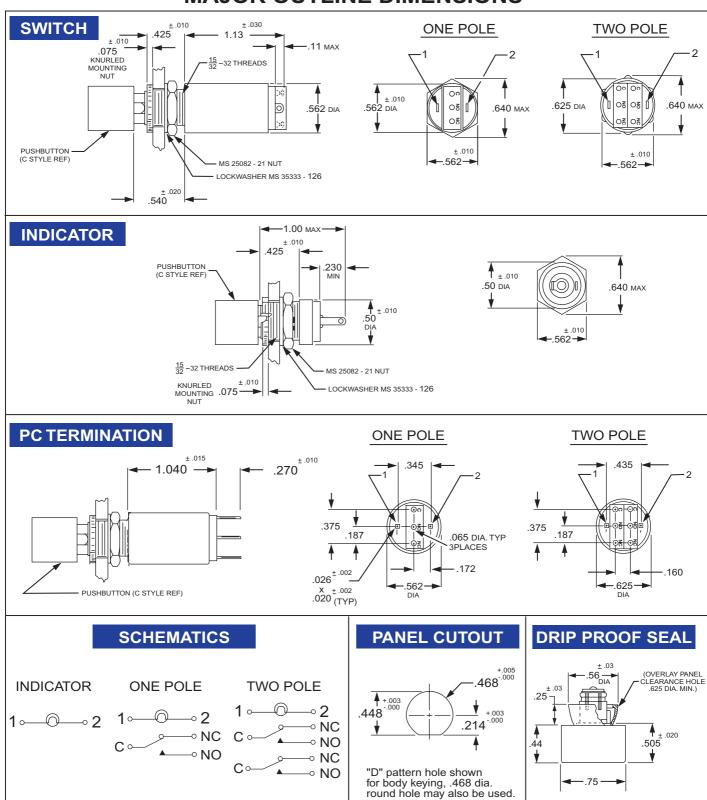
TABLE 11 SWITCH ACTION	TABLE 12 UNLIGHTED BACKGROUND COLOR	TABLE 13 DISPLAY DATA	TABLE 14 * LIGHTED COLOR		TABLE 15 * * DISPLAY TYPE	TABLE 16 CHARACTER SIZE AND PLACEMENT	
O INDICATOR M MOMENTARY	BLK BLACK DW DIFFUSED WHITE NG NUETRAL GRAY R RED A AMBER Y YELLOW G GREEN B BLUE	TO BE SPECIFIED ON PRELIMINARY FORM	C CLEAR R RED A AMBER Y YELLOW G GREEN B BLUE DW DIFFUSED WHITE B1 BLUE 1	WL WHITE LIGHT NG NUETRAL GRAY AG AVIATION GREEN AY AVIATION YELLOW AG1 AVIATION GREEN1	BLACK CHARATERS ON DIFFUSED WHITE BACKGROUND. BACKGROUND ILLUMINATES IN COLOR. REPLACED BY DISPLAY TYPE 7. UNREADABLE BEFORE LIGHTED. OPAQUE CHARACTERS ON NEUTRAL GRAY ILLUMINATING BACKGROUND. ILLUMINATING CHARACTERS ON BLACK BACKGROUND. CHARACTERS SHALL NOT APPEAR ILLUMINATED IN UNLIT CONDITION. S. CONTRASTING OPAQUE CHARACTERS ON ILLUMINATING.	SEE CHARACTER INFORMATION CHART TABLE 17 LAMPS T1 3/4 NUMBER	
GREEN OI AY APPEA * B1 AND AG RECOMME	RS AMBER WHE G1 SPECIAL HIGH ENDED FOR DISE	MEET MIL - C - 25 N ILLUMINATED. H BRIGHT BLUE &	GREEN	COLORED BACKGROUND. BLACK CHARACTERS ON INCLIMINATING OR AMBER BACKGROUND. WHITE CHARACTERS ON YELLOW OR AMBER BACKGROUND. WHITE CHARACTERS ON ALL OTHER COLORS. DISPLAY TYPES NOT COVERED BY THIS TABLE SHOULD BE SPECIFIED BY A NOTE ON PURCHASE ORDER OR MAY BE SPECIFIED ON JAY-EL CUSTOMER SPECIFICATION. WHITE CHARACTERS ILLUMINATE IN COLOR ON BLACK BACKGROUND. S. SUNLIGHT READBLE ILLUMINATING CHARACTERS ARE HIDDEN BEFORE LIGHTED. BLACK BACKGROUND. CHARACTERS ARE VISIBLE IN DIRECT SUNLIGHT. 910.000FC) WHEN LIGHTED.	NUMBER 328 5V 330 12V 387 28V		

CHARACTER INFORMATION (HORIZONTAL DIRECTION ONLY) IF ADDITIONAL CHARACTERS PER LINE ARE REQUIRED SPECIFY FUTURA MEDIUM CONDENSED.

	SPECIFY FOTORA MEDIUM CONDENSED.									
FUTURA MEDIUM CONDESED	SIZE	STROKE	HEIGHT	CHARACTERS PER LINE						
				В	С	D	Е	F	G	Н
JAY - EL PRODUCTS INC.	-1	.012	.072	6	6	8	8	8	8	5
JAY - EL PRODUCTS INC.	-2	.012	.087	5	5	7	7	7	7	4
JAY - EL PRODUCTS INC.	-3	.012	.109	4	4	5	5	5	5	3
JAY - EL PRODUCTS	-4	.012	.125	3	3	4	4	4	4	3
JAY - EL PRODUCTS	-5	.012	.145	3	3	4	4	4	4	2
JAY - EL PRODU	-6	.012	.175	2	2	3	3	3	3	2
JAY - EL PRO	-7	.012	.222	2	2	2	2	2	2	2

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MAJOR OUTLINE DIMENSIONS



Tolerances: Unless otherwise specified - Fraction ± 1/32", .XX±.01, XXX ± .005



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