





REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	—	SEE SHEET 1	—	—	—

Coil Table Type 3SBC (All Values DC)\*2PDT, 135 mW Sensitivity: (Code 1)

Coil Code Letter	Coil Resistance @ 25C (ohms)	Voltage Calibrated, Code 5				Current Calibrated, Code 6			
		Suggested Source Volts†	Max. Operate Volts @ 25C	Release Voltage Range @ 25C		Max. Continuous Current @ 125C (mA)	Max. Operate Current @ 25C (mA)	Release Current Range @ 25C (mA)	
				Max.	Min.			Max.	Min.
A	44 ± 10%	3.5-6.2	2.4	1.45	0.26	87.0	54.5	32.7	6.00
B	56 ± 10%	4.0-7.0	2.7	1.6	0.3	77.0	48.3	28.6	5.30
D	140 ± 10%	6.4-12.0	4.4	2.6	0.5	50.3	31.4	18.5	3.60
E	210 ± 10%	8.0-16.0	5.4	3.2	0.6	40.0	25.7	15.4	2.80
L	650 ± 10%	13.6-24.0	9.5	5.6	1.0	22.9	14.3	8.6	1.54
K	1350 ± 10%	20.0-35.0	13.5	8.1	1.5	15.5	10.0	6.0	1.10
N	2245 ± 10%	26.0-46.0	17.1	10.5	1.9	12.0	7.6	4.7	0.84

Coil-Data (All Values DC)\* Type 3SBC Form AB 50 mW Sensitivity non mil spec: (Code 2)

Coil Code Letter	Coil Resistance @ 25C (ohms)	Voltage Calibrated, Code 5				Current Calibrated, Code 6			
		Suggested Source Volts†	Max. Operate Volts @ 25C	Release Voltage Range @ 25C		Max. Continuous Current @ 125C (mA)	Max. Operate Current @ 25C (mA)	Release Current Range @ 25C (mA)	
				Max.	Min.			Max.	Min.
B	56 ± 10%	2.6-7.0	1.8	1.1	0.16	46.5	29.1	18.2	3.30
C	85 ± 10%	3.3-9.5	2.3	1.4	0.20	38.7	24.2	15.1	2.70
D	140 ± 10%	4.3-12.0	2.9	1.8	0.27	30.4	19.0	11.9	2.10
E	210 ± 10%	5.3-14.0	3.6	2.2	0.33	24.8	15.5	9.7	1.75
F	360 ± 10%	6.7-19.0	4.5	2.8	0.41	18.9	11.8	7.2	1.30
G	510 ± 10%	8.2-23.0	5.6	3.5	0.51	15.8	9.9	6.2	1.10
H	775 ± 10%	10.0-26.0	6.8	4.2	0.62	12.8	8.0	5.0	0.90
K	1350 ± 10%	13.2-35.0	9.0	5.6	0.82	9.8	6.1	3.8	0.68
N	2245 ± 10%	16.8-46.0	11.4	7.1	1.00	7.4	4.6	2.9	0.52

\*Values listed are factory test and inspection data. User should allow for meter variations.  
†At nominal resistance plus 10%. ‡Applicable over the operating temperature range in circulating air.

Coil Table Single Diode (All Values DC)\*(2DPT), 135 mW Sensitivity: (Code 5)

Coil Code Letter	Coil Resistance @ 25C (ohms)	Voltage Calibrated, Code 5				Current Calibrated, Code 6			
		Suggested Source Volts†	Max. Operate Volts @ 25C	Release Voltage Range @ 25C		Max. Continuous Current @ 125C (mA)	Max. Operate Current @ 25C (mA)	Release Current Range @ 25C (mA)	
				Max.	Min.			Max.	Min.
A	44 ± 10%	3.5- 6.2	2.4	1.45	0.26	87.0	54.5	32.7	6.00
B	56 ± 10%	4.0- 7.0	2.7	1.6	0.3	77.0	48.3	28.6	5.30
D	140 ± 10%	6.4-12.0	4.4	2.6	0.5	50.3	31.4	18.5	3.60
E	210 ± 10%	8.0-16.0	5.4	3.2	0.6	40.0	25.7	15.4	2.80
L	650 ± 10%	13.6-24.0	9.5	5.6	1.0	22.9	14.3	8.6	1.54
K	1350 ± 10%	20.0-35.0	13.5	8.1	1.5	15.5	10.0	6.0	1.10
N	2245 ± 10%	26.0-46.0	17.1	10.5	1.9	12.0	7.6	4.7	0.84

Coil Table Dual Diode (All Values DC)\*(2DPT), 135 mW Sensitivity: (Code 6)

A	44 ± 10%	3.9- 7.0	3.4	2.0	0.37	98.2	77.3	45.5	8.4
B	56 ± 10%	4.6- 8.0	3.7	2.2	0.41	89.8	66.1	39.3	7.1
D	140 ± 10%	7.8-12.0	5.4	3.2	0.6	52.4	38.6	22.9	4.3
E	210 ± 10%	9.3-16.0	6.4	3.8	0.7	41.4	30.5	18.1	3.3
L	650 ± 10%	15.0-24.0	10.5	6.2	1.1	23.6	16.2	9.5	1.7
K	1350 ± 10%	21.0-35.0	14.5	8.7	1.6	16.0	10.7	6.4	1.2
N	2245 ± 10%	27.0-46.0	18.1	10.9	2.0	12.1	8.1	4.9	0.9

Coil Table Type 3SBC (All Values DC)\*2PDT, 135 mW Sensitivity: (Code 1)

Coil Code Letter	Coil Resistance @ 25C (ohms)	Voltage Calibrated, Code 5				Current Calibrated, Code 6			
		Suggested Source Volts†	Max. Operate Volts @ 25C	Release Voltage Range @ 25C		Max. Continuous Current @ 125C (mA)	Max. Operate Current @ 25C (mA)	Release Current Range @ 25C (mA)	
				Max.	Min.			Max.	Min.
A	44 ± 10%	3.5-6.2	2.4	1.45	0.26	87.0	54.5	32.7	6.00
B	56 ± 10%	4.0-7.0	2.7	1.6	0.3	77.0	48.3	28.6	5.30
D	140 ± 10%	6.4-12.0	4.4	2.6	0.5	50.3	31.4	18.5	3.60
E	210 ± 10%	8.0-16.0	5.4	3.2	0.6	40.0	25.7	15.4	2.80
L	650 ± 10%	13.6-24.0	9.5	5.6	1.0	22.9	14.3	8.6	1.54
K	1350 ± 10%	20.0-35.0	13.5	8.1	1.5	15.5	10.0	6.0	1.10
N	2245 ± 10%	26.0-46.0	17.1	10.5	1.9	12.0	7.6	4.7	0.84

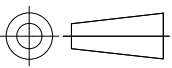
Coil-Data (All Values DC)\* Type 3SBC Form AB 50 mW Sensitivity non mil spec: (Code 2)

Coil Code Letter	Coil Resistance @ 25C (ohms)	Voltage Calibrated, Code 5				Current Calibrated, Code 6			
		Suggested Source Volts†	Max. Operate Volts @ 25C	Release Voltage Range @ 25C		Max. Continuous Current @ 125C (mA)	Max. Operate Current @ 25C (mA)	Release Current Range @ 25C (mA)	
				Max.	Min.			Max.	Min.
B	56 ± 10%	2.6-7.0	1.8	1.1	0.16	46.5	29.1	18.2	3.30
C	85 ± 10%	3.3-9.5	2.3	1.4	0.20	38.7	24.2	15.1	2.70
D	140 ± 10%	4.3-12.0	2.9	1.8	0.27	30.4	19.0	11.9	2.10
E	210 ± 10%	5.3-14.0	3.6	2.2	0.33	24.8	15.5	9.7	1.75
F	360 ± 10%	6.7-19.0	4.5	2.8	0.41	18.9	11.8	7.2	1.30
G	510 ± 10%	8.2-23.0	5.6	3.5	0.51	15.8	9.9	6.2	1.10
H	775 ± 10%	10.0-26.0	6.8	4.2	0.62	12.8	8.0	5.0	0.90
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N	2245 ± 10%	16.8-46.0	11.4	7.1	1.00	7.4	4.6	2.9	0.52

\*Values listed are factory test and inspection data. User should allow for meter variations.  
†At nominal resistance plus 10%. ‡Applicable over the operating temperature range in circulating air.

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
INCHES



MATERIAL  
—


TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ± —  
1 PLC ± —  
2 PLC ± —  
3 PLC ± —  
4 PLC ± —  
ANGLES ± —  
FINISH —

DWN RV 19NOV2019  
CHK RV 19NOV2019  
APVD MB 19NOV2019

PRODUCT SPEC  
—  
APPLICATION SPEC  
—  
WEIGHT —

CUSTOMER DRAWING

 TE Connectivity

NAME  
3SBC—SERIES  
—  
—

SIZE  
A3

CAGE CODE  
—

DRAWING NO  
C=3SBC—SERIES

RESTRICTED TO  
—

SCALE  
NTS

SHEET  
2 OF 3

REV  
A



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REVISIONS

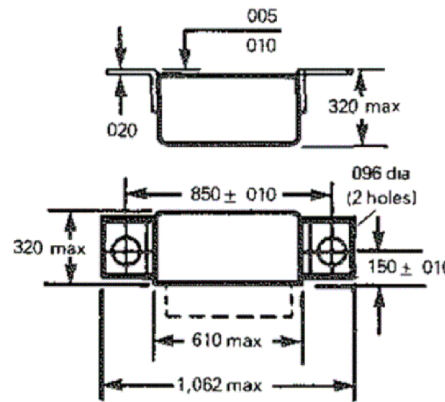
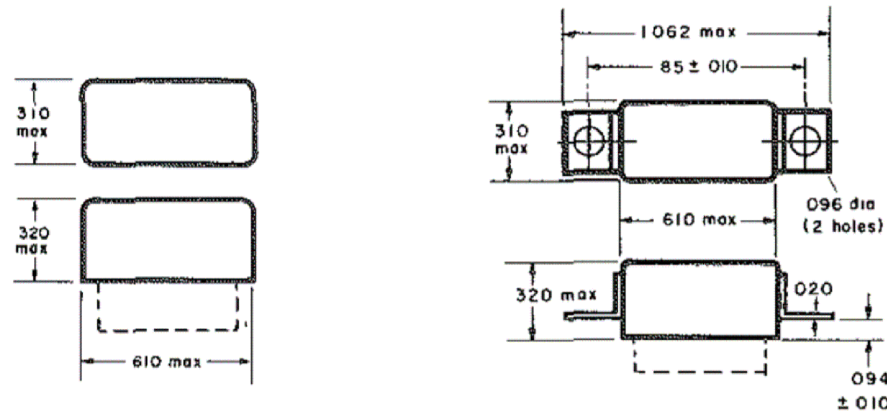
P	LTR	DESCRIPTION	DATE	DWN	APVD
	—	SEE SHEET 1	—	—	—

Mounting Forms  
(3SBC, 3SCC)

(Vibration note with each  
form is acceleration from  
55 to 3000 Hz)

All dimensions in inches

TOLERANCES (Unless otherwise specified)	
Hundredths	± 0 020
Thousandths	± 0 005



No Mount

Mounting Code	Vibration
00	30g

\*Assumes relay held securely by potting or  
other means

End Bracket

Mounting Code	Vibration
13	30g

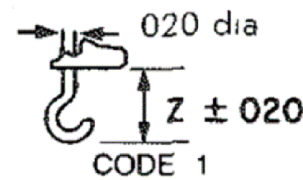
Side Bracket

Mounting Code	Vibration
25	30g

Header and Connection  
Diagrams

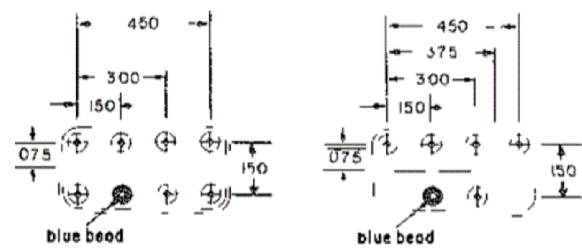
Header Types

TYPE	Z DIMENSION	HEADER CODE
Solder hook	0 13	1

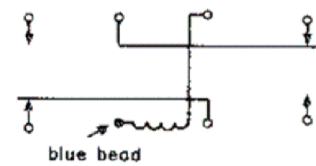


CODE 1, 5, & 6

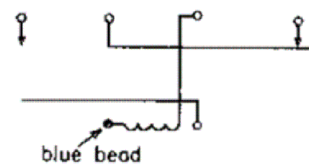
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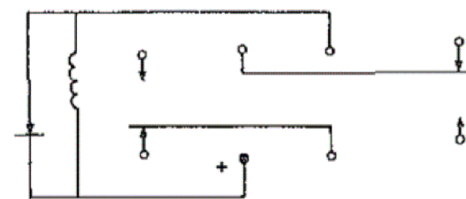
Terminal View



CODE 1

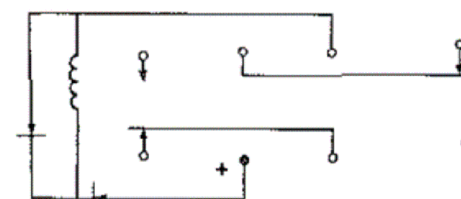


CODE 2



CODE 5

SINGLE DIODE



CODE 6

DUAL DIODE

Electrical Characteristics

Contact Ratings —

DC resistive — 2 amps at 28 volts  
(50,000 operations)

1 Amp @ 28 V (100,000 operations)

DC inductive — 0.5 amps at 28 volts,  
200 mH

AC resistive — 0.5 amps at 115 volts

AC — 0.125 amps at 115 volts (case  
grounded)

Low-level — 50 µA at 50 mV

Peak AC or DC

Contact Resistance —

0.050 ohms max.; 0.150 ohms after life  
test

Life — 100,000 operations at rated  
loads listed; 1,000,000 operations at  
low-level loads

.150 Grid-space  
Hybrid Relays

Single Diode, Dual Diode

Type 3SBC (2PDT)

135 mW

Product Facts

- Low profile... only  
0.32 inches high
- 50 milliwatt forms available
- Qualified to MIL-R-39016/37
- Qualified to MIL-R-39016/38
- RF designs available

Operating Characteristics

Operate Time — 4 ms max.

Release Time — 6 ms max.

Contact Bounce — 1.5 ms

Dielectric Strength (Note 1) —

500 volts rms at sea level;  
350 volts rms at 70,000 feet and above

Insulation Resistance (Note 1) —

1,000 megohm min. over temperature  
range

Environmental Characteristics

Vibration — 30G, to 3000 Hz

Shock — 100 G at 11 ms

Temperature — -65°C to +125°C

Semiconductor Characteristics  
at 25°C


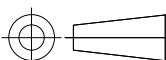
Diode —

Max. Negative Transient — 1.0 volt

Breakdown Voltage — 100 VDC @ 10 µA

Max. Leakage Current — 1 µA @ 50 VDC

ALL DIMENSIONS ARE IN INCHES

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN RV 19NOV2019		<div>TE Connectivity</div>						
		CHK RV 19NOV2019								
		APVD MB 19NOV2019								
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:  0 PLC ± — 1 PLC ± — 2 PLC ± — 3 PLC ± — 4 PLC ± — ANGLES ± —		NAME  3SBC—SERIES  —  —						
	PRODUCT SPEC  —									
	APPLICATION SPEC  —									
	SIZE A3			CAGE CODE —	DRAWING NO ©-3SBC—SERIES		RESTRICTED TO —			
MATERIAL  —		FINISH  —		WEIGHT  —		CUSTOMER DRAWING		SCALE NTS	SHEET 3 OF 3	REV A

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