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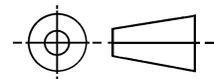
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THIRD ANGLE PROJECTION



ISSUED 2001-07

PREPARED BY SAE SUBCOMMITTEE AE-8C2



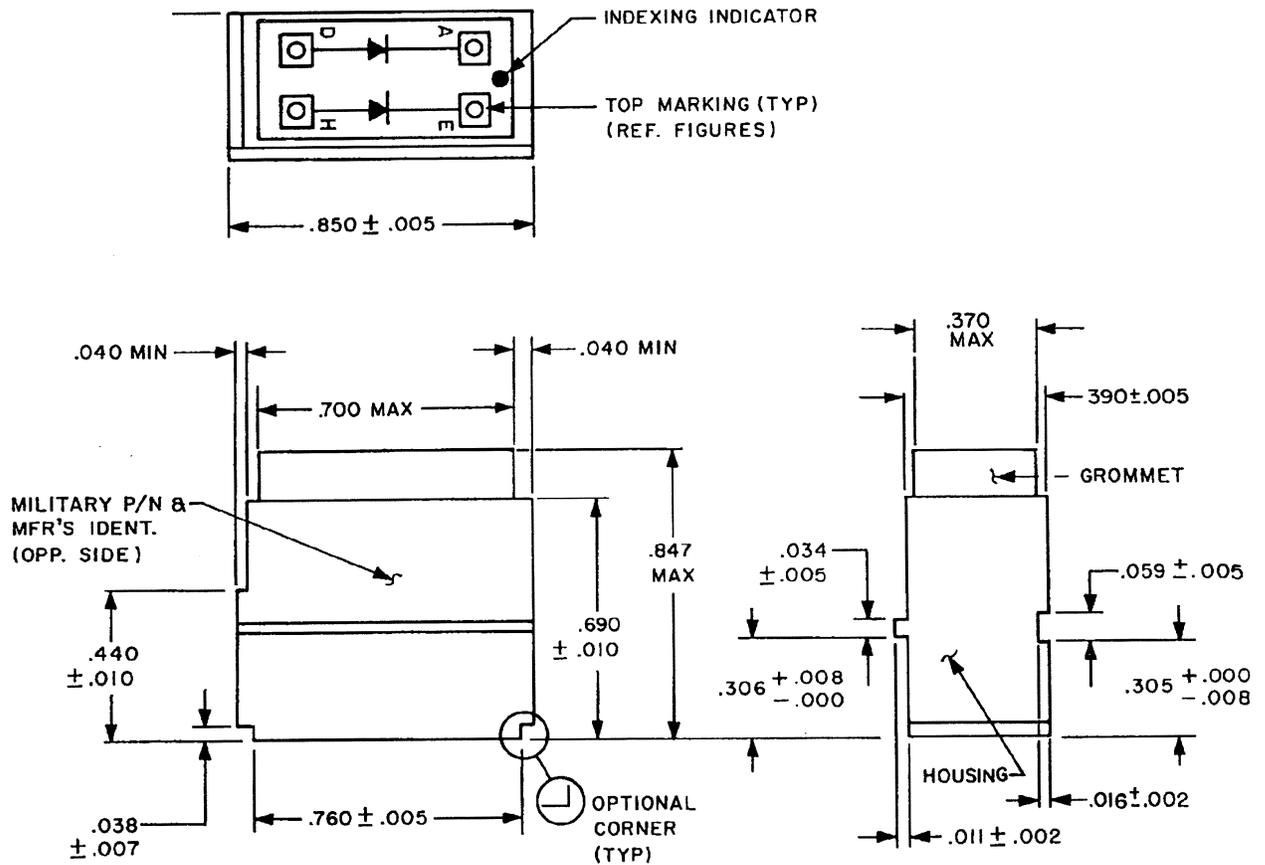
AEROSPACE STANDARD

TERMINAL JUNCTION SYSTEM, TERMINAL JUNCTION BLOCKS, SECTIONAL, MODULES, ELECTRONIC, FEEDBACK TYPE, SIZE 20, SERIES I

AS81714/18
SHEET 1 OF 9

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THE COMPLETE REQUIREMENTS FOR ACQUIRING THE BLOCKS DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF SPECIFICATION MIL-T-81714.



Size 20 Electronic Block

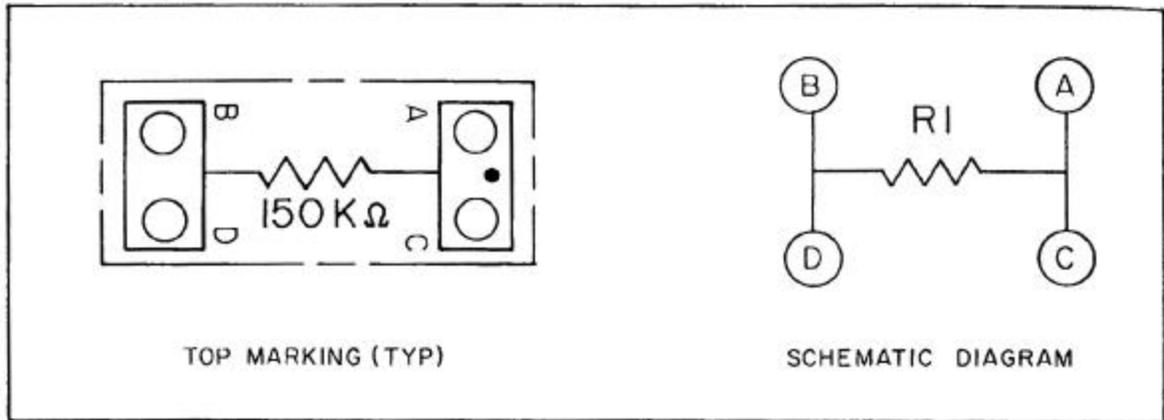


FIGURE 1. BLOCKS WITH ONE RESISTOR.

TABLE I. DASH NUMBERS FOR FIGURE 1.

Dash No.	Figure	Ref. Des.	Ohms	Part Number	Specification No.
-001	1A	R1	150	RCR20G151JS	MIL-R-39008/2
-002	1A	R1	180	RCR20G181JM	MIL-R-39008/2
-003	1A	R1	221	RWR89N2210FR	MIL-R-39007/11
-004	1A	R1	249	RN65H249OFM	MIL-R-55182/3
-005	1A	R1	390	RCR20G391JM	MIL-R-39008/2
-006	1A	R1	4750	RN60D4751F	MIL-R-10509/1
-007	1A	R1	3300	RCR20G332JM	MIL-R-39008/2
-008	1A	R1	3900	RLR20C3901GR	MIL-R-39017/2
-009	1A	R1	2200	RCR20G222JM	MIL-R-39008/2
-010	1A	R1	5600	RCR20G562JM	MIL-R-39008/2
-011	1A	R1	24K	RLR20G2402GR	MIL-R-39017/2
-012	1A	R1	47.5	RN60D47R5F	MIL-R-10509/1
-013	1A	R1	150K	RLR20C1503FR	MIL-R-39017/2
-014	1A	R1	100	RCR20G101JM	MIL-R-39008/2

Inch	mm	Inch	mm	Inch	mm	Inch	mm
.002	0.05	.014	0.36	.305	7.75	.690	17.53
.005	0.13	.034	0.86	.306	7.77	.700	17.78
.007	0.18	.038	0.97	.370	9.40	.760	19.30
.008	0.20	.040	1.02	.390	9.91	.847	21.51
.010	0.25	.059	1.50	.440	11.18	.850	21.59
.011	0.28						

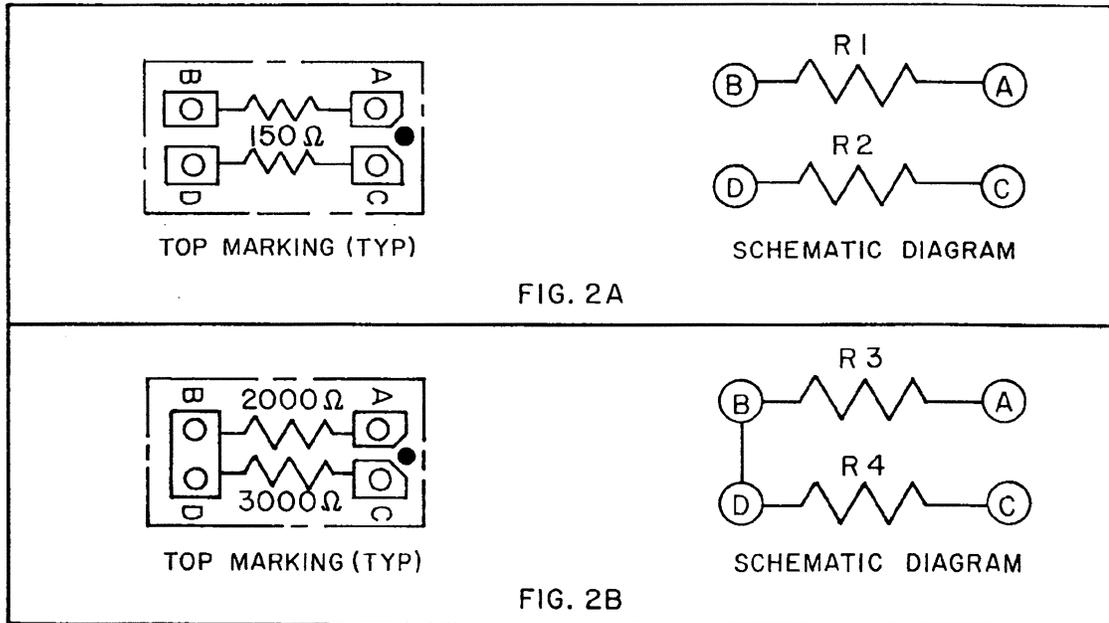
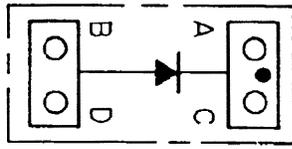


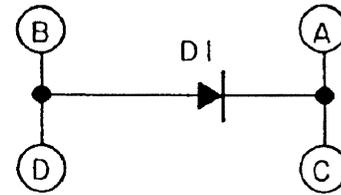
FIGURE 2. BLOCKS WITH TWO RESISTORS.

TABLE II. DASH NUMBERS FOR FIGURE 2.

Dash No.	Figure	Ref. Des.	Ohms	Part Number	Specification No.
-301	2A	R1 R2	150 150	RCR20G151JS RCR20G151JS	MIL-R-39008/2
-302	2A	R1 R2	1000 1000	RCR07G102JM RCR07G102JM	MIL-R-39008/1
-303	2A	R1 R2	150K 150K	RCR07G154JM RCR07G154JM	MIL-R-39008/1
-304	2B	R3 R4	2000 3000	RCR07G202JM RCR07G302JM	MIL-R-39008/1

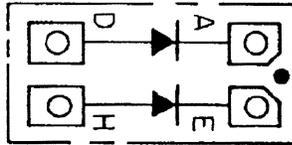


TOP MARKING (TYP)

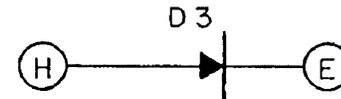
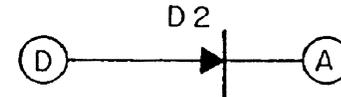


SCHEMATIC DIAGRAM

FIG. 3A

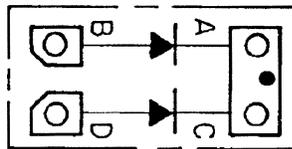


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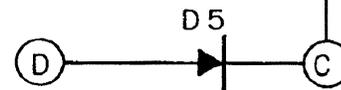
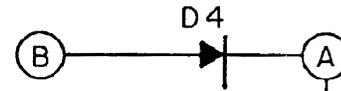


SCHEMATIC DIAGRAM

FIG. 3B

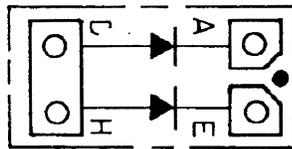


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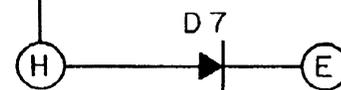
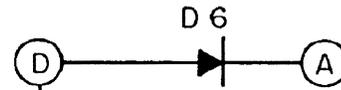


SCHEMATIC DIAGRAM

FIG. 3C

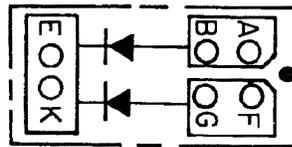


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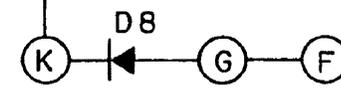
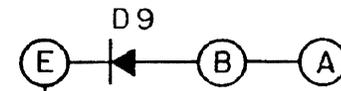


SCHEMATIC DIAGRAM

FIG. 3D



TOP MARKING (TYP)



SCHEMATIC DIAGRAM

FIG. 3E

FIGURE 3. BLOCKS WITH DIODE(S).

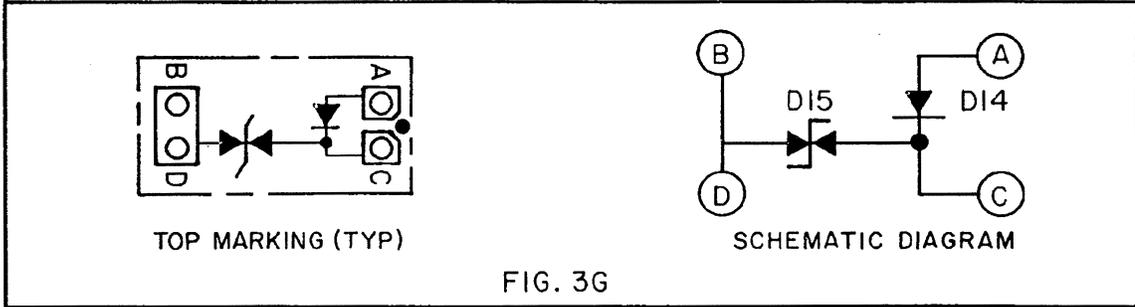
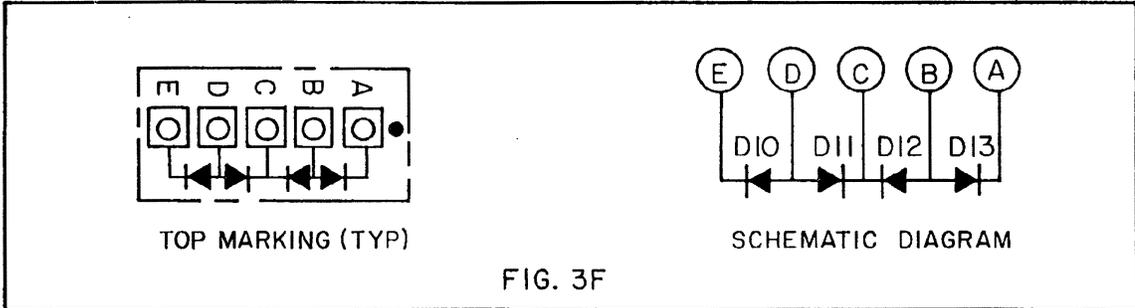


FIGURE 3. BLOCKS WITH DIODE(S) (CONTINUED).

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TABLE III. DASH NUMBERS FOR FIGURE 3.

Dash No.	Figure	Ref Des	Part Number	Specification ^{1/}
-501	3A	D1	JAN 1N5618	MIL-S-19500/427
-502	3B	D2	JAN 1N1526	MIL-S-19500/432
		D3		
-503	3C	D4	1N4003	JEDEC
		D5	1N4003	JEDEC
-504	3D	D6	1N4003	JEDEC
		D7	1N4003	JEDEC
-505	3E	D8	JAN 1N5618	MIL-S-19500/427
		D9	JAN 1N5618	MIL-S-19500/427
-506	3F	D10, D11	JAN 1N3611	MIL-S-19500/228
		D12, D13		
-507	3G	D14	JAN TX4971	MIL-C-19500/356
		D15	JAN-1N5553	MIL-S-19500/420

^{1/} JEDEC: Joint Electronic Design Engineering Council (EIA), 2001 Eye Street, N.W., Washington, DC 20006.

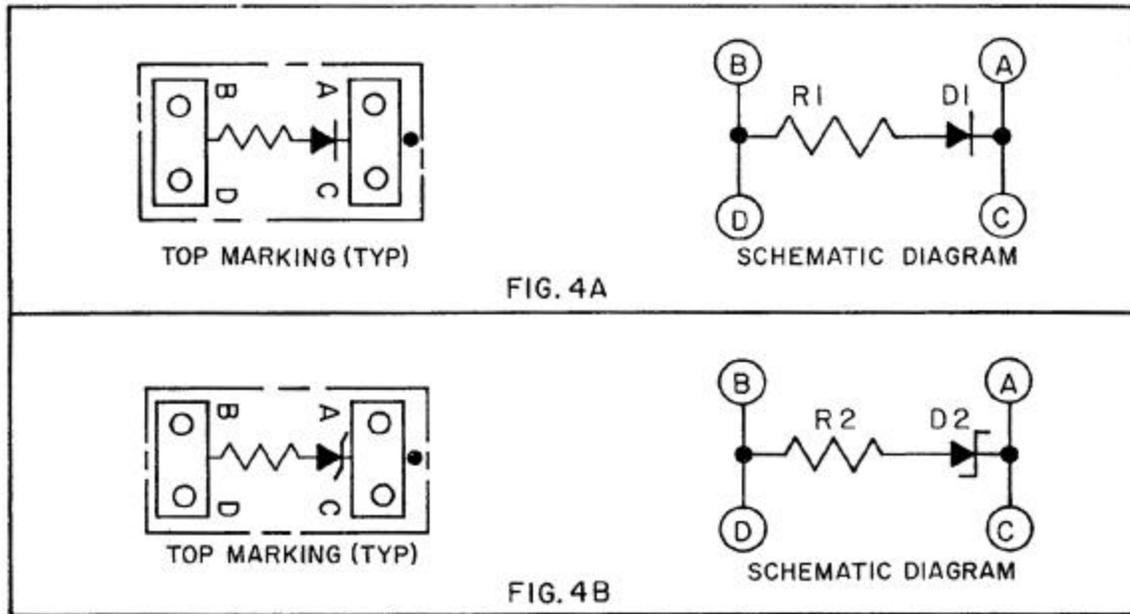


FIGURE 4. BLOCKS WITH RESISTOR AND DIODE.

TABLE IV. DASH NUMBERS FOR FIGURE 4.

Dash No.	Figure	Ref. Des.	Ohms	Part Number	Specification No.
-701	4A	R1	1	RWR81S1R00FM or RWR81W1R00FM	MIL-R-39007/9
		D1		JAN 1N5618	MIL-S-19500/427 MIL-S-19500/228
-702	4B	R2	1	RW81U1R00F	MIL-R-26/6
		D2		JAN TX 1N6162	MIL-S-19500/516
-703	4B	R2	1	RW81U1R00F	MIL-R-26/6
		D2		JAN TX 1N6173	MIL-S-19500/516

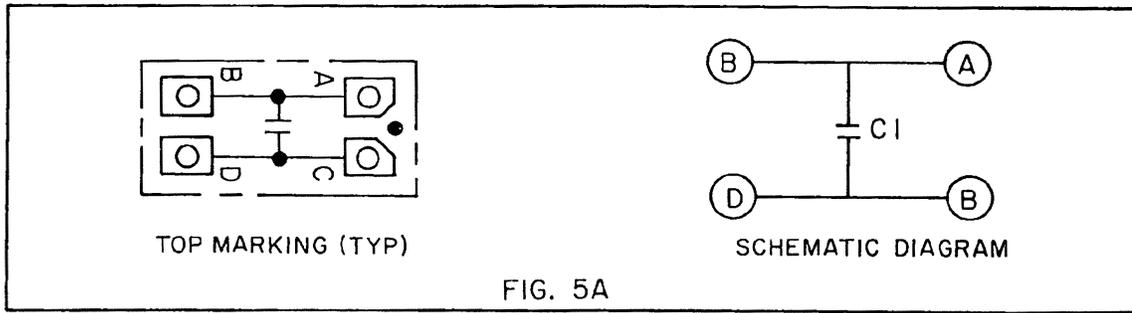


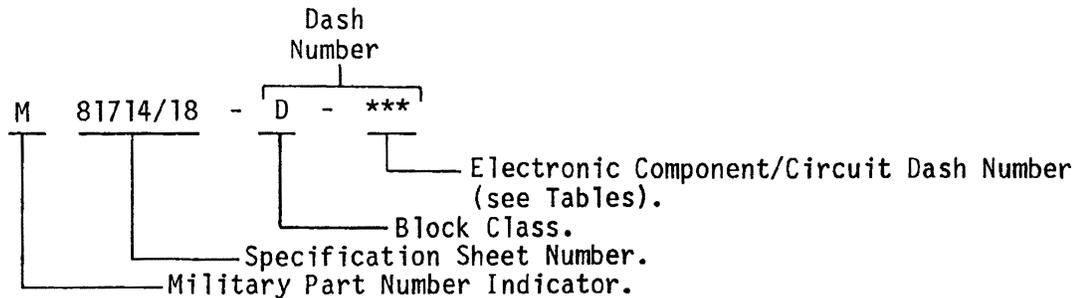
FIGURE 5. BLOCKS WITH CAPACITOR.

TABLE V. DASH NUMBERS FOR FIGURE 5.

Dash No.	Figure	Ref Des	Part Number	Specification
-801	5A	C1	M39014/13-0335	MIL-C-39014/13

NOTES:

1. DIMENSIONS ARE IN INCHES.
2. THIS BLOCK IS DESIGNED FOR INSTALLATION IN THE MIL-T-81714/16 RACK WITH ITS INDEXING INDICATOR ADJACENT TO THE INDEXING RACK RAIL. THIS BLOCK CAN ALSO BE INSTALLED IN MIL-T-81714/29 BRACKETS.
3. TOOL FOR CONTACT INSERTING/REMOVAL IS M81969/14-02 OR M81969/8-06 AND SHALL BE ORDERED SEPARATELY.
4. METRIC EQUIVALENTS (TO THE NEAREST .01 MM) ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1 INCH = 25.4 MM.
5. THE PART NUMBER CONSISTS OF THE LETTER M, SPECIFICATION SHEET NUMBER, BLOCK CLASS AND ELECTRONIC COMPONENT/CIRCUIT DASH NUMBER (SEE TABLES).



PART NUMBER EXAMPLE:

M81714/18-D-001

FEEDBACK TYPE ELECTRONIC BLOCK, SIZE 20, CLASS D, WITH -001 CIRCUIT (ONE RN60D1500F RESISTOR).

6. CLASSES A, B AND C COMPONENTS ARE INACTIVE FOR NEW DESIGN. ONLY CLASS D COMPONENTS SHALL BE USED FOR DIRECT GOVERNMENT ACQUISITION.

REVISION LETTERS ARE NOT USED TO DENOTE CHANGES DUE TO THE EXTENSIVENESS OF THE CHANGES.