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REV.
E

AS81714™/63

FEDERAL SUPPLY CLASS
5940

RATIONALE

REQUIRES ADDITION OF SIZE 12 BUSSING ARRANGEMENT.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS81714.

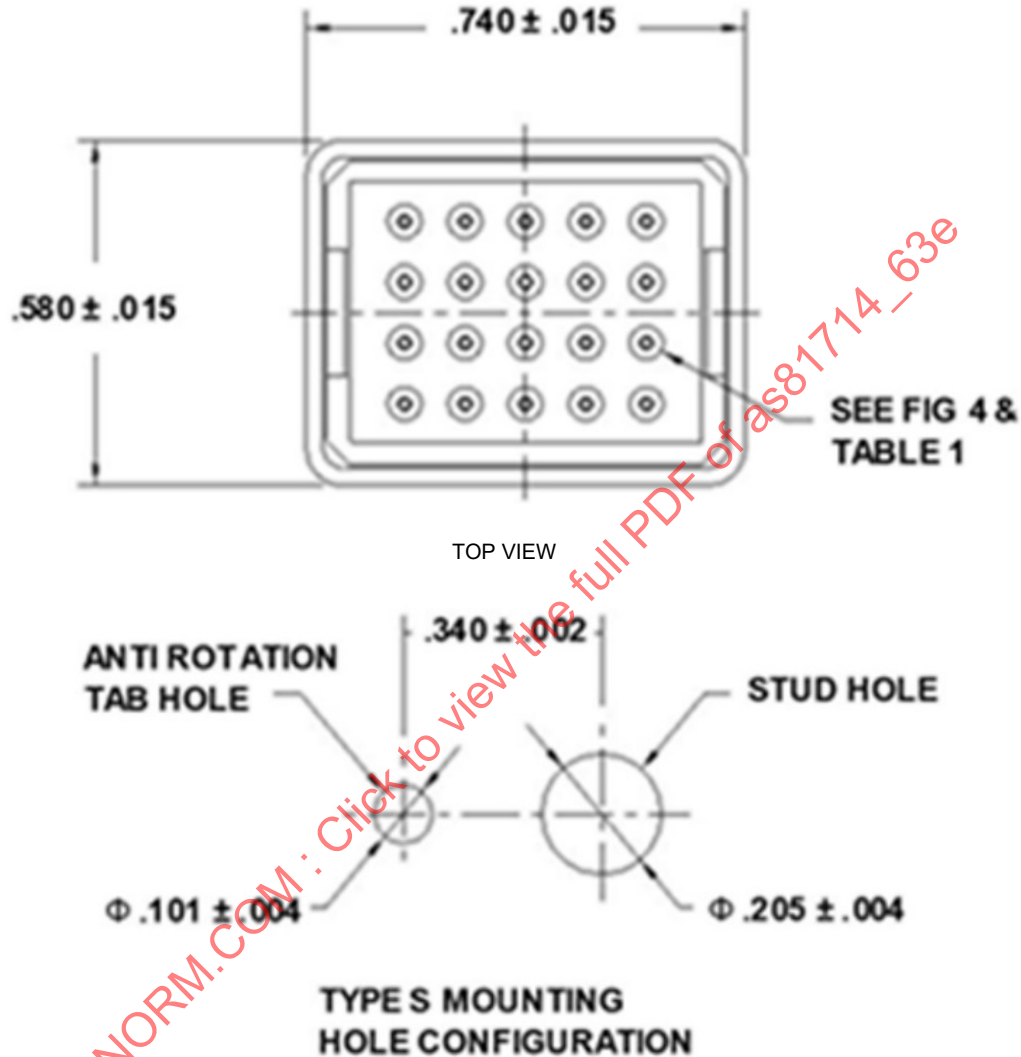
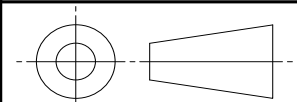


FIGURE 1 - COMPONENT SIZE 22 THRU 16, STUD MOUNTING TYPE S
(SEE FIGURE 4 FOR BUSSING ARRANGEMENTS)

For more information on this standard, visit
<https://www.sae.org/standards/content/AS81714/63E/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C2

PROCUREMENT SPECIFICATION: AS81714



AEROSPACE STANDARD

TERMINAL JUNCTION SYSTEM, TERMINAL JUNCTION
BLOCKS, SECTIONAL, GROUNDING MODULES, STUD
AND FLANGE TYPE MOUNTING, SERIES II

AS81714™/63
SHEET 1 OF 8

REV.
E

ISSUED 2004-04 REVISED 2022-07

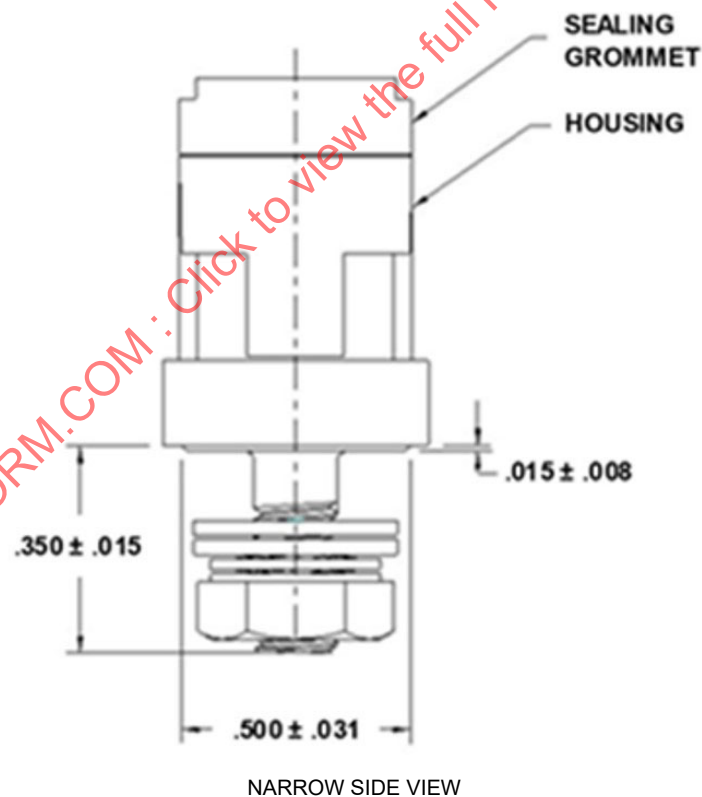
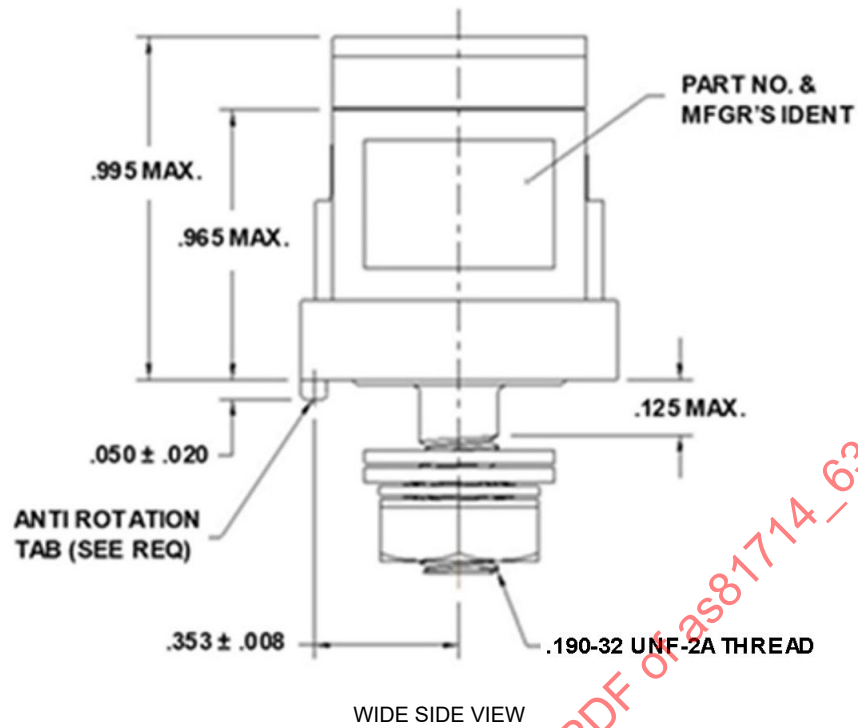


FIGURE 1 - COMPONENT SIZE 22 THRU 16, STUD MOUNTING TYPE S
(SEE FIGURE 4 FOR BUSSING ARRANGEMENTS) (CONTINUED)

	AEROSPACE STANDARD		AS81714™/63 SHEET 2 OF 8	REV. E
	TERMINAL JUNCTION SYSTEM, TERMINAL JUNCTION BLOCKS, SECTIONAL, GROUNDING MODULES, STUD AND FLANGE TYPE MOUNTING, SERIES II			

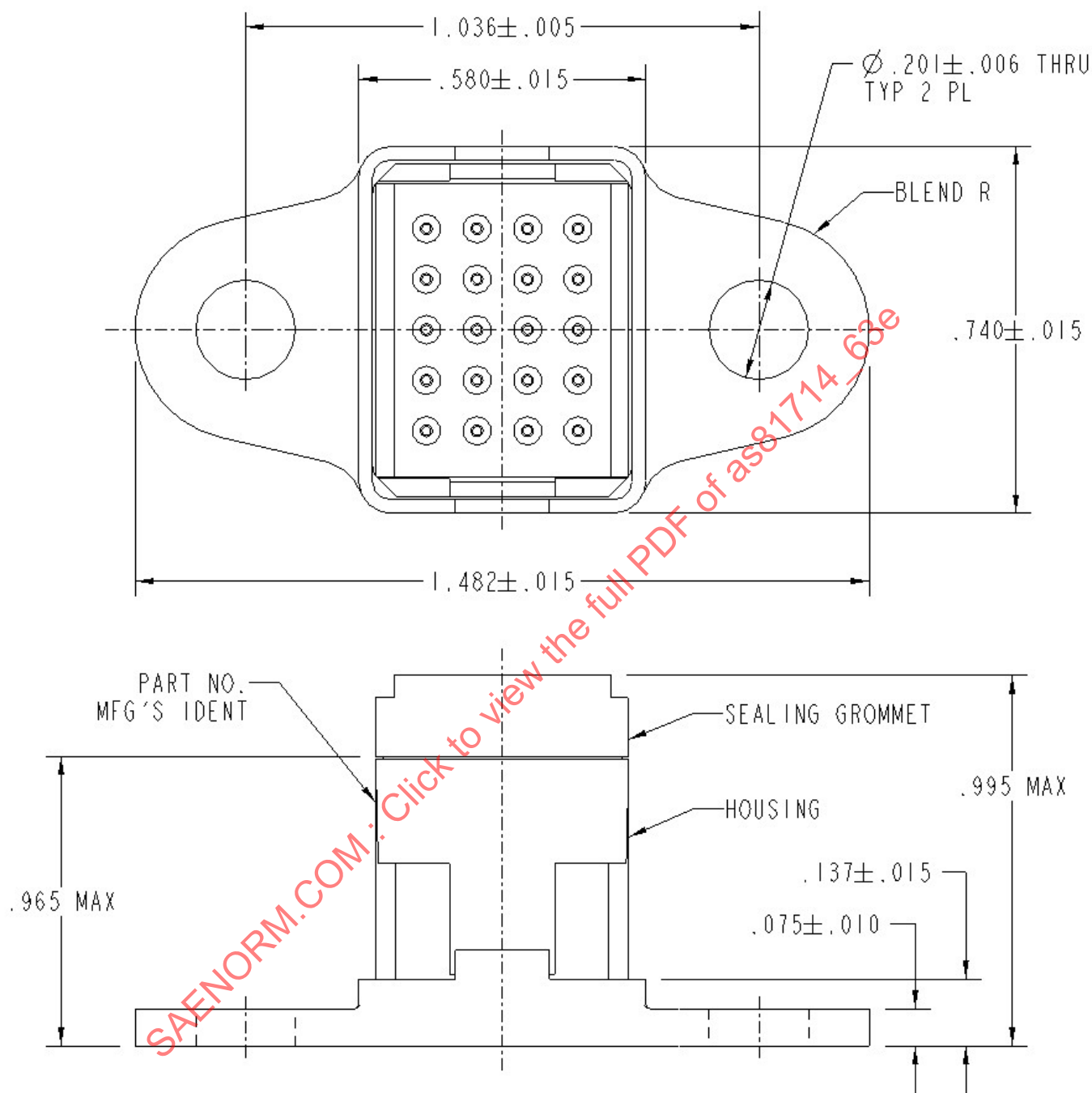


FIGURE 2 - COMPONENT SIZE 22 THRU 16, FLANGE MOUNTING TYPE F
(SEE FIGURE 4 FOR BUSSING ARRANGEMENTS)

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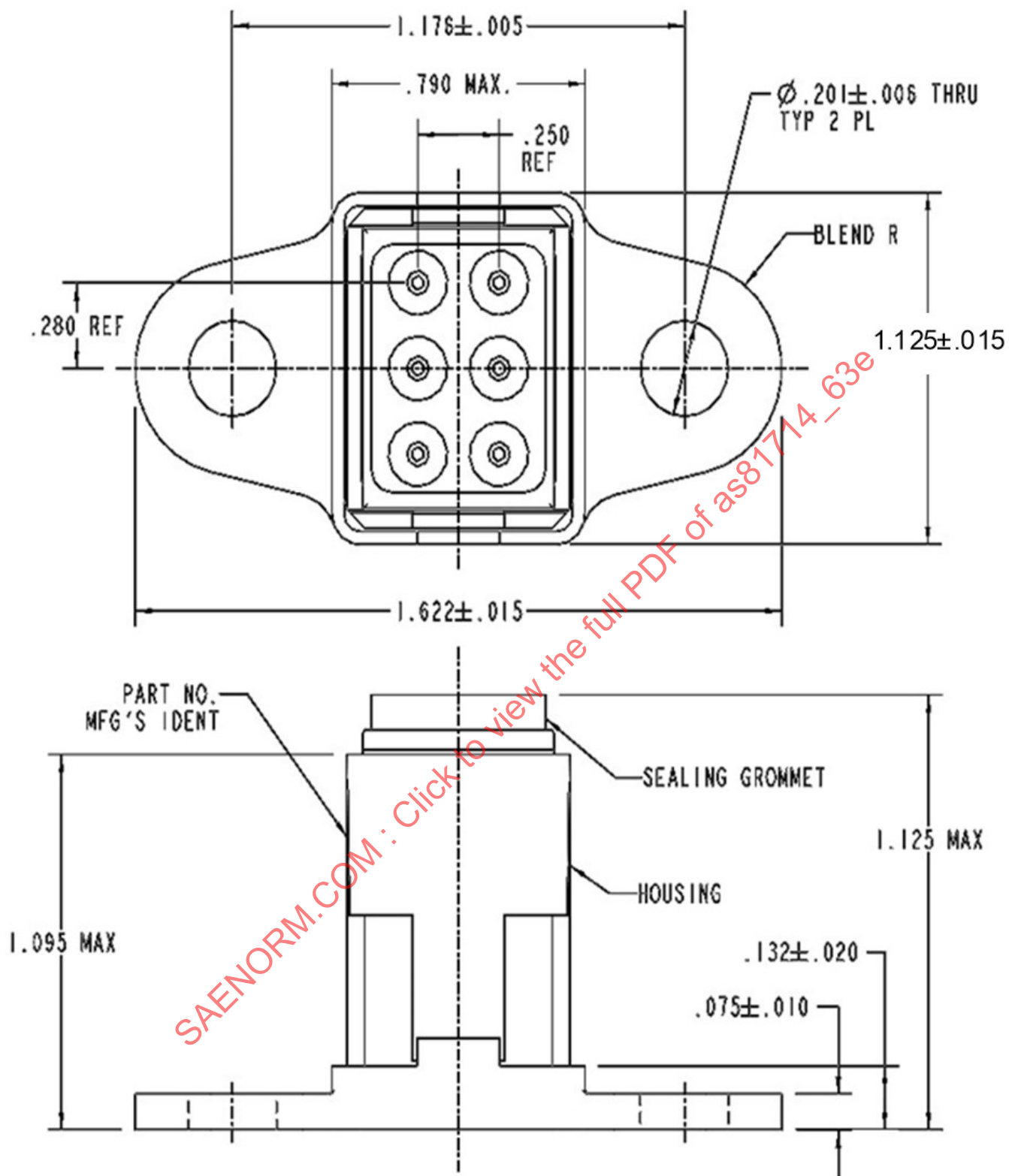


FIGURE 3 - COMPONENT SIZE 12, FLANGE MOUNTING TYPE S WITH BUSSING ARRANGEMENT

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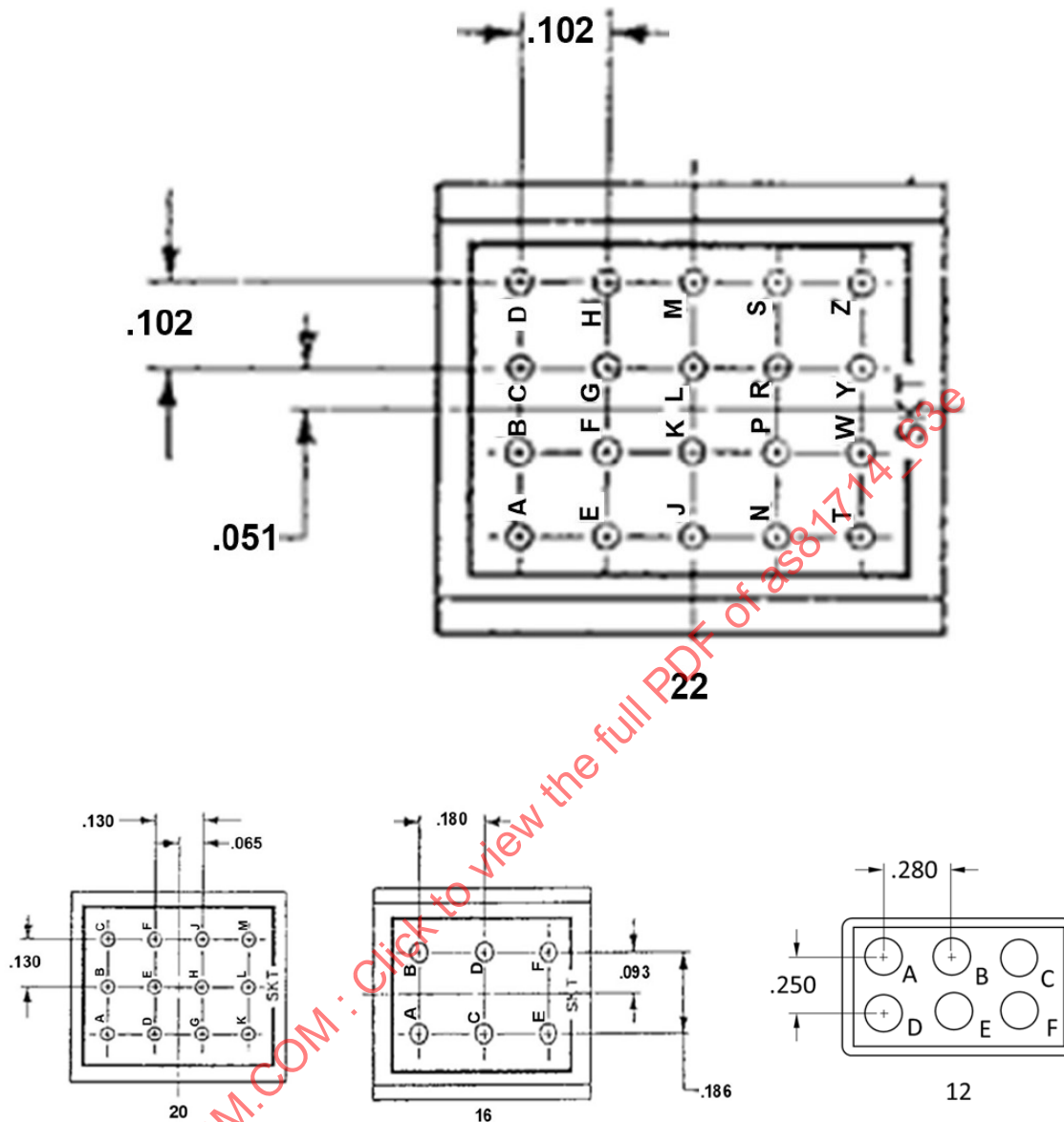


FIGURE 4 - MOUNTING TYPE S AND F BUSSING ARRANGEMENTS FOR CONTACT SIZE 22 THRU 12

TABLE 1 - ACCESSORY PART NUMBERS

COMPONENT DESIGNATOR (BLOCK)	COMPONENT TYPE (BLOCK)	CONTACT CONFIGURATION		CONDUCTOR RANGE	CONTACT M39029/22	GROMMET SEAL PLUG	INSTALLING TOOL 2/	REMOVAL TOOL 2/
		MATE END	WIRE BARREL					
22	S & F	22	22	26-22	-191	MS27488-22-2	M81969/14-01 M81969/8-03 M81969/8-303	M81969/14-01 M81969/8-04 M81969/8-304
20	S & F	20	20	24-20	-192	MS27488-20-2	M81969/14-10 M81969/8-05 M81969/8-205 M81969/8-305	M81969/14-10 M81969/8-06 M81969/8-206 M81969/8-306
16	S & F	16	16	20-16	-193	MS27488-16-2	M81969/14-03 M81969/8-07 M81969/8-207 M81969/8-307	M81969/14-03 M81969/8-08 M81969/8-208 M81969/8-308
12 1/	F ONLY	12	12	14-12	-605	MS27488-12-2	M81969/8-09 M81969/8-209 M81969/8-309 M81969/16-03	M81969/8-10 M81969/8-210 M81969/8-310 M81969/16-03

1/ COMPONENT SIZE 12 FLANGE MOUNTING TYPE S (ONLY) BLOCKS SHALL BE SUPPLIED WITH ONE AN315-3 HEX NUT, TWO NAS1149F0332P FLAT WASHERS, AND ONE MS35333-39 LOCK WASHER.

2/ INSTALLING AND REMOVAL TOOLS SHALL BE ORDERED SEPARATELY (REFER TO AS81969).

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS81714.

CONFIGURATION:

1. MODULES ARE CONFIGURED IN ACCORDANCE WITH FIGURES 1 THROUGH 4. DIMENSIONS ARE IN INCHES.
2. DIMENSIONS ARE TYPICAL AND FOR REFERENCE ONLY.
3. FOR BUSSING ARRANGEMENTS ALL CONTACT CAVITIES ARE CONNECTED TOGETHER.
4. ANTI ROTATION TAB SHALL ENTER INTO MOUNTING HOLE.
5. THE CONTACT MATING END RETENTION SYSTEM AND GROMMET WIRE SEALING SHALL BE IN ACCORDANCE WITH AS81714.

MATERIAL:

1. MODULE BODY AND GROMMET SHALL BE IN ACCORDANCE WITH AS81714.
2. THE STUD/STUD BASE FOR TYPE "S" AND THE FLANGE FOR TYPE "F" SHALL BE GOLD PLATED IN ACCORDANCE WITH MIL-DTL-45204, TYPE I, GRADE C, CLASS 00 OVER A SUITABLE NICKEL UNDERPLATE.

STUD TORQUE FOR TYPE S MODULE:

1. THE MOUNTING STUD FOR TYPE S (ONLY) COMPONENT (BLOCK) SHALL BE ABLE TO WITHSTAND A MAXIMUM TORQUE OF 29 LB-IN, WITH NO EVIDENCE OF DAMAGE DETRIMENTAL TO THE NORMAL OPERATION.

BENDING MOMENT:

1. THE ASSEMBLY SHALL BE MOUNTED IN A TEST FIXTURE, AS SHOWN IN FIGURE 5, WITH AN ADAPTER ATTACHED TO THE STUD OR FLANGE AS NECESSARY. APPLY THE REQUIRED LOAD AT DISTANCE "L" FROM THE TEST FIXTURE AS SHOWN. THE LOAD SHALL CREATE A BENDING MOMENT OF 20 LB-IN FOR SIZES 22, 20, AND 16, AND 30 LB-IN FOR SIZE 12. APPLY THE LOAD AT A RATE OF APPROXIMATELY 1 POUND PER SECOND UNTIL THE REQUIRED FORCE IS ACHIEVED AND KEEP IT APPLIED FOR 15 SECONDS BEFORE RELEASING. THERE SHALL BE NO EVIDENCE OF SEPARATION BETWEEN THE HOUSING AND THE STUD OR SHELL BASE, OR ANY OTHER DAMAGE DETRIMENTAL TO THEIR NORMAL OPERATION.

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