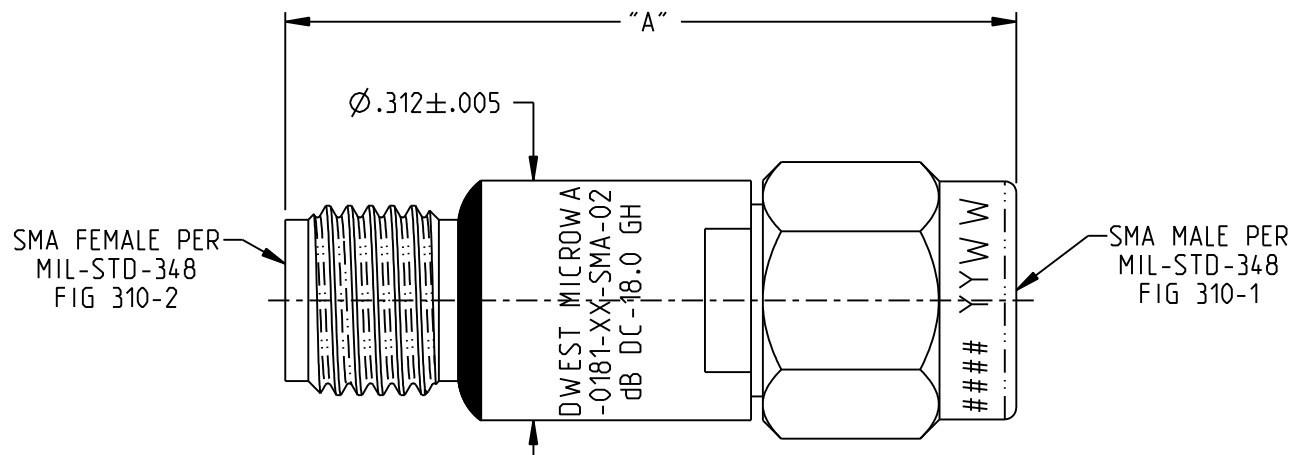


| ATTENUATION VALUE | "A" |
|-------------------|------|
| 0-12.5 dB | .95 |
| 13-20 dB | 1.08 |

| REV | ECO | DATE |
|-----|-------|-----------|
| | | |
| 001 | 57704 | 9/30/2020 |



NOTES: UNLESS OTHERWISE SPECIFIED.

1. MATERIAL & FINISH: SEE SHEET 2

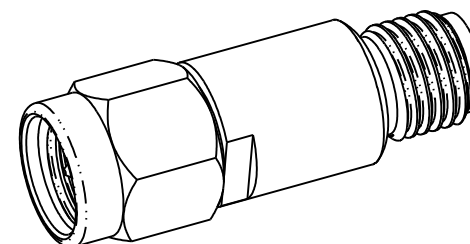
2. SPECIFICATIONS:

- 2.1 FREQUENCY: RANGE: DC - 18.0 GHz
- 2.2 IMPEDANCE (NOMINAL): 50 OHMS
- 2.3 VSWR (MAX) BOTH ENDS: 1.07 + .015F (GHz)
- 2.4 ATTENUATION ACCURACY:
 - 2.4.1 0 dB: +0.3/-0 dB
 - 2.4.2 0.5-6 dB: ± 0.3 dB
 - 2.4.3 6.5-12 dB: ± 0.5 dB
 - 2.4.4 12.5-20 dB: ± 0.7 dB
- 2.5 INPUT POWER (MAX):
 - 2.5.1 AVERAGE: 2 WATTS AT 25°C DERATED LINEARLY TO 0.5 WATTS AT 125°C
 - 2.5.2 PEAK: 500 WATTS FOR A DUTY CYCLE OF 5×10^{-4} MAX PULSE DURATION OF 5 MICROSECONDS.

3. OPERATING TEMP. RANGE: -55°C TO +125°C

4. WEIGHT (MAX): 0.5 OZ



5. SCREENING PARAMETERS PER ATP-09417-60-02, LEVEL B.



| | | | | |
|---|---|----------------------|-----------------------------|---------------------------|
| <small>NOTICE: The information in this drawing is PROPRIETARY and must not be used without the permission of Cinch Connectivity Solutions. It may contain data whose export is restricted. Verify status prior to exporting.</small> <small>INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5-2018</small> | Model No: | SQA-0181-XX-SMA-02 | MIDWEST MICROWAVE | |
| | RoHS2 <input checked="" type="checkbox"/> | Cage Code | 34078 | Title: |
| | 2015/863/EU | 3RD ANGLE PROJECTION | | SPACE ATTENUATOR, 0-20 dB |
| | UNLESS OTHERWISE SPECIFIED UNITS: INCH | ENGINEER: | J. KEREKES | Drawing No. |
| | Date: | 9/30/2020 | SQA-0181-XX-SMA-02-01 | REV. 001 |
| | ANGLES $\pm 2^\circ$ | | Size A | DO NOT SCALE DRAWING |
| | | | Workmanship Std. SEE NOTE 5 | Sheet 1 OF 2 |

| REV | ECO | DATE |
|-----|-------|-----------|
| | | |
| 001 | 57704 | 9/30/2020 |

| ITEM | QTY | DESCRIPTION | MATERIAL | FINISH/OUTGASSING |
|------|-----|--------------------|--|--|
| 1 | 1 | COUPLING NUT | STAINLESS STEEL PER ASTM-A582, TYPE 303 | PASSIVATED PER SAE AMS2700, METHOD 2 |
| 2 | 1 | GASKET | VITON A FLUOROELASTOMER PER SAE AMS7276 | N/A |
| 3 | 1 | RETAINING RING | BERYLLIUM COPPER PER ASTM-B197, ALLOY C172 | N/A |
| 4 | 1 | SMA MALE CONTACT | BERYLLIUM COPPER PER ASTM-B196, ALLOY C173 | 50 MICROINCHES MIN GOLD PLATE PER ASTM-B488, TYPE II, GRADE C, CLASS 1.27 |
| 5 | 2 | DIELECTRIC | PTFE TYPE 1, GRADE 1, CLASS B, PER ASTM D 1710 | N/A |
| 6 | 1 | SMA MALE HOUSING | STAINLESS STEEL PER ASTM-A582, TYPE 303 | PASSIVATED PER SAE AMS2700, METHOD 2 |
| 7 | 2 | SHIM | STAINLESS STEEL PER ASTM-A582, TYPE 303 | PASSIVATED PER SAE AMS2700, METHOD 2 |
| 8 | 2 | BUSHING | STAINLESS STEEL PER ASTM-A582, TYPE 303 | PASSIVATED PER SAE AMS2700, METHOD 2 |
| 9 | 2 | EDGE SPRING | BERYLLIUM COPPER PER ASTM-B194, ALLOY C172 | 20 MICROINCHES MIN GOLD PLATE PER ASTM-B488, TYPE II, CLASS 0.5, GRADE B OR C. |
| 10 | 1 | CARD SPACER | BERYLLIUM COPPER PER ASTM-B196, ALLOY C173 | 20 MICROINCHES MIN GOLD PLATE PER ASTM-B488, TYPE II, CLASS 0.5, GRADE B OR C. |
| 11 | 1 | RESISTOR CARD | TANTALUM NITRIDE THIN FILM OVER ALUMINUM NITRIDE CERAMIC | 40 MICROINCHES MIN GOLD SPUTTERED TERMINALS PER MIL-G-45204, TYPE III, GRADE A |
| 12 | 2 | CENTER PLUNGER | BERYLLIUM COPPER PER ASTM-B194, ALLOY C172 | 20 MICROINCHES MIN GOLD PLATE PER ASTM-B488, TYPE II, CLASS 0.5, GRADE B OR C. |
| 13 | 2 | PLUNGER SPRING | BERYLLIUM COPPER PER ASTM-B194, ALLOY C172 | 50 MICROINCHES MIN GOLD PLATE PER ASTM-B488, TYPE II, GRADE C, CLASS 1.27 |
| 14 | 1 | SMA FEMALE HOUSING | STAINLESS STEEL PER ASTM-A582, TYPE 303 | PASSIVATED PER SAE AMS2700, METHOD 2 |
| 15 | 1 | SMA FEMALE CONTACT | BERYLLIUM COPPER PER ASTM-B196, ALLOY C173 | 50 MICROINCHES MIN GOLD PLATE PER ASTM-B488, TYPE II, GRADE C, CLASS 1.27 |
| 16 | 2 | SUPPORT BEAD | ULTEM 1000 PER ASTM D7293 S-PEI0111 | N/A |
| 17 | A/R | EPOXY SEAL | 3M SCOTCH-WELD 2214 NMF (1-HOUR CURE @ 125°C) | TML%=0.77, CVCM%=0.02 |
| 18 | A/R | BLACK MARKING INK | VIDEOJET 16-5900 (1-HOUR MIN CURE @ 175 °C) | TML%=0.74, CVCM%=0.04 |

| | | | | | |
|--|---|----------------------|---|----------------------|-----------------------------|
|  <p>NOTICE: The information in this drawing is PROPRIETARY and must not be used without the permission of Cinch Connectivity Solutions. It may contain data whose export is restricted. Verify status prior to exporting.</p> <p>INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5-2018</p> | Model No: | SQA-0181-XX-SMA-02 | MIDWEST MICROWAVE | | |
| | RoHS2 <input checked="" type="checkbox"/> | Cage Code | 34078 | Title: | SPACE ATTENUATOR, 0-20 dB |
| | UNLESS OTHERWISE SPECIFIED UNITS: INCH | 3RD ANGLE PROJECTION |  | Drawing No. | SQA-0181-XX-SMA-02-01 |
| | .XX ±.02 .XXX ±.010 ANGLES ±2° | ENGINEER: | J. KEREKES | REV. | 001 |
| Date: | 9/30/2020 | Size | A | DO NOT SCALE DRAWING | Workmanship Std. SEE NOTE 5 |
| | | | Sheet | 2 OF 2 | |