

## Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Bel Fuse Inc.](#)  
[M3933/25-87S](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

NOTES:

1.0 SPECIFICATIONS:

- 1.1 FREQUENCY RANGE: SEE TABLE  
 1.2 IMPEDANCE: 50 OHMS NOMINAL  
 1.3 VSWR MAX.:  
 DC to 2.0 GHz 1.10:1  
 2.0 to 4.0 GHz 1.15:1  
 4.0 to 8.0 GHz 1.20:1  
 8.0 to 12.4 GHz 1.25:1  
 12.4 to 18.0 GHz 1.35:1  
 1.4 ATTENUATION & ACCURACY: SEE TABLE  
 1.5 MAXIMUM INPUT POWER  
 1.5.1 2 WATTS AVG. AT +25°C DERATED LINEARLY  
 TO 0.5 WATTS AT +125°C  
 1.5.2 500 WATTS PEAK  
 1.6 OPERATING TEMP. RANGE:  
 -55°C to +125°C  
 1.7 WEIGHT: 0.45 Oz. MAX.

2.0 MARKING.

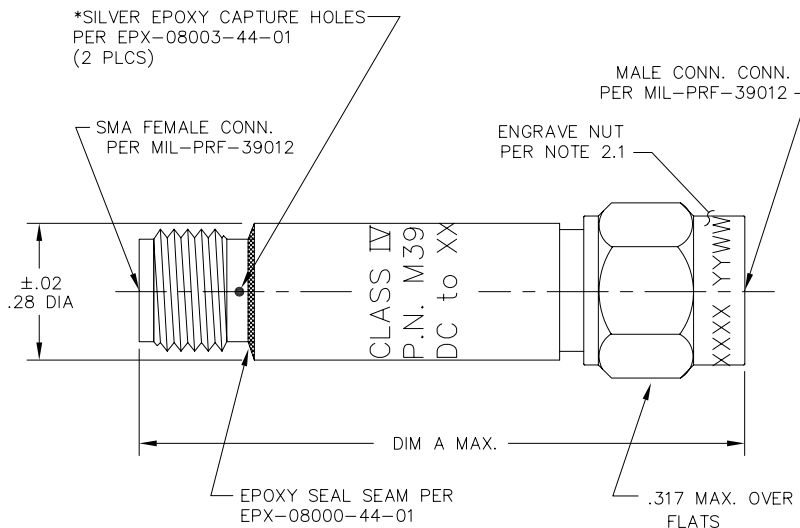
- 2.1 ENGRAVE SERIAL NO. AND DATE CODE  
 ON NUT AS SHOWN.  
 2.2 MARK BODY AS SHOWN.  
 (REF: INK-09119-27-XX) FOR NON-SCREENED.  
 (REF: INK-09120-27-XX) FOR SCREENED.

3.0 TESTING:

TEST IN CONJUNCTION WITH:  
 ATP-07839-60-01 FOR SCREENED UNITS.  
 ATP-09210-60-01 FOR NON-SCREENED UNITS.

4.0 BAG MARKING:

MODEL M3933/25-YYY  
 ATTENUATOR FIXED COAXIAL LINE  
 2 WATTS AVERAGE INPUT POWER  
 FREQ. RANGE: DC-XX GHz  
 MFR 34078  
 LOT NO. \_\_\_\_\_  
 DATE CODE: YYWW  
 SEE MODEL NO.  
 FOR LAST 3 DIGITS  
 SEE TABLE ON SHT. 2  
 YEAR & WEEK



\*N/A ON UNITS .94 O.A.L.

|                                                                              |                                                                                                                                                  |  |                    |  |                         |            |              |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------|--|-------------------------|------------|--------------|
| UNLESS OTHERWISE<br>NOTED DIMENSIONS<br>ARE IN INCHES AND<br>TOLERANCES ARE: | FSCM NO.                                                                                                                                         |  | 34078              |  | MIDWEST MICROWAVE       |            |              |
|                                                                              | NOTICE: The information<br>contained in this<br>drawing is proprietary<br>and must not be used<br>without the permission<br>of Midwest Microwave |  |                    |  | TITLE<br><br>ATTENUATOR |            |              |
|                                                                              |                                                                                                                                                  |  |                    |  |                         |            |              |
|                                                                              |                                                                                                                                                  |  |                    |  |                         |            |              |
|                                                                              |                                                                                                                                                  |  |                    |  |                         |            |              |
| 3 PLACE DECIMALS ±.005                                                       | DRAWN/DATE                                                                                                                                       |  | ENG/DATE           |  | DRAWING NUMBER          |            |              |
| 2 PLACE DECIMALS ±.02                                                        | M.HOLLMAN<br>7/3/92                                                                                                                              |  | G.KOZAK<br>7/14/92 |  |                         |            |              |
| FRACTIONS ±1/64                                                              | CHECKED/DATE                                                                                                                                     |  | APPROVED/DATE      |  | M3933/25-XX(N or S)     |            |              |
| PARALLELITY: T.I.R. _____                                                    | G.KOZAK<br>7/14/92                                                                                                                               |  |                    |  |                         |            |              |
| FLATNESS: T.I.R. _____                                                       |                                                                                                                                                  |  |                    |  |                         | SCALE: 5=1 | SHEET 1 of 2 |
| CONCENTRICITY: T.I.R. _____                                                  |                                                                                                                                                  |  |                    |  |                         |            |              |
| ANGLES AND PERPENDICULARITY: ±1°                                             |                                                                                                                                                  |  |                    |  |                         |            |              |

| DASH NO. | ATTENUATION dB |               |                |                | DIM A INCHES (MM) MAX. |
|----------|----------------|---------------|----------------|----------------|------------------------|
|          | NOMINAL        | DEVIATION (±) |                |                |                        |
|          |                | DC to 2.0 GHz | DC to 12.4 GHz | DC to 18.0 GHz |                        |
| 01 N/S   | 1              | 0.3           |                |                | 0.87 (22.10)           |
| 02 N/S   | 2              | 0.3           |                |                | 0.87 (22.10)           |
| 03 N/S   | 3              | 0.3           |                |                | 0.87 (22.10)           |
| 04 N/S   | 4              | 0.3           |                |                | 0.87 (22.10)           |
| 05 N/S   | 5              | 0.3           |                |                | 0.87 (22.10)           |
| 06 N/S   | 6              | 0.3           |                |                | 0.87 (22.10)           |
| 07 N/S   | 7              | 0.3           |                |                | 0.87 (22.10)           |
| 08 N/S   | 8              | 0.3           |                |                | 0.87 (22.10)           |
| 09 N/S   | 9              | 0.3           |                |                | 0.87 (22.10)           |
| 10 N/S   | 10             | 0.3           |                |                | 0.87 (22.10)           |
| 11 N/S   | 11             | 0.3           |                |                | 0.87 (22.10)           |
| 12 N/S   | 12             | 0.3           |                |                | 0.87 (22.10)           |
| 13 N/S   | 13             | 0.3           |                |                | 1.03 (26.16)           |
| 14 N/S   | 14             | 0.3           |                |                | 1.03 (26.16)           |
| 15 N/S   | 15             | 0.3           |                |                | 1.03 (26.16)           |
| 16 N/S   | 16             | 0.3           |                |                | 1.03 (26.16)           |
| 17 N/S   | 17             | 0.3           |                |                | 1.03 (26.16)           |
| 18 N/S   | 18             | 0.3           |                |                | 1.03 (26.16)           |
| 19 N/S   | 19             | 0.3           |                |                | 1.03 (26.16)           |
| 20 N/S   | 20             | 0.3           |                |                | 1.03 (26.16)           |
| 21 N/S   | 21             | 0.5           |                |                | 1.03 (26.16)           |
| 22 N/S   | 22             | 0.5           |                |                | 1.03 (26.16)           |
| 23 N/S   | 23             | 0.5           |                |                | 1.03 (26.16)           |
| 24 N/S   | 24             | 0.5           |                |                | 1.03 (26.16)           |
| 25 N/S   | 25             | 0.5           |                |                | 1.03 (26.16)           |
| 26 N/S   | 30             | 0.5           |                |                | 1.03 (26.16)           |
| 27 N/S   | 1              |               | 0.3            |                | 0.87 (22.10)           |
| 28 N/S   | 2              |               | 0.3            |                | 0.87 (22.10)           |
| 29 N/S   | 3              |               | 0.3            |                | 0.87 (22.10)           |
| 30 N/S   | 4              |               | 0.3            |                | 0.87 (22.10)           |
| 31 N/S   | 5              |               | 0.3            |                | 0.87 (22.10)           |
| 32 N/S   | 6              |               | 0.3            |                | 0.87 (22.10)           |

| DASH NO. | ATTENUATION   dB |                 |                | DIM A INCHES (MM) MAX. |
|----------|------------------|-----------------|----------------|------------------------|
|          | NOMINAL          | DEVIATION   (±) |                |                        |
|          |                  | DC TO 2.0 GHz   | DC TO 12.4 GHz |                        |
| 33 N/S   | 7                |                 | 0.4            | 0.87 (22.10)           |
| 34 N/S   | 8                |                 | 0.4            | 0.87 (22.10)           |
| 35 N/S   | 9                |                 | 0.4            | 0.87 (22.10)           |
| 36 N/S   | 10               |                 | 0.4            | 0.87 (22.10)           |
| 37 N/S   | 11               |                 | 0.4            | 0.87 (22.10)           |
| 38 N/S   | 12               |                 | 0.4            | 0.87 (22.10)           |
| 39 N/S   | 13               |                 | 0.4            | 0.94 (23.88)           |
| 40 N/S   | 14               |                 | 0.4            | 0.94 (23.88)           |
| 41 N/S   | 15               |                 | 0.4            | 0.94 (23.88)           |
| 42 N/S   | 16               |                 | 0.4            | 0.94 (23.88)           |
| 43 N/S   | 17               |                 | 0.4            | 0.94 (23.88)           |
| 44 N/S   | 18               |                 | 0.4            | 0.94 (23.88)           |
| 45 N/S   | 19               |                 | 0.4            | 0.94 (23.88)           |
| 46 N/S   | 20               |                 | 0.7            | 1.04 (26.42)           |
| 47 N/S   | 21               |                 | 0.7            | 1.04 (26.42)           |
| 48 N/S   | 22               |                 | 0.7            | 1.04 (26.42)           |
| 49 N/S   | 23               |                 | 0.7            | 1.04 (26.42)           |
| 50 N/S   | 24               |                 | 0.7            | 1.04 (26.42)           |
| 51 N/S   | 25               |                 | 0.7            | 1.04 (26.42)           |
| 52 N/S   | 30               |                 | 1.0            | 1.04 (26.42)           |
| 53 N/S   | 35               |                 | 1.0            | 1.35 (34.29)           |
| 54 N/S   | 40               |                 | 1.0            | 1.35 (34.29)           |
| 55 N/S   | 45               |                 | 1.5            | 1.35 (34.29)           |
| 56 N/S   | 50               |                 | 2.0            | 1.35 (34.29)           |
| 57 N/S   | 60               |                 | 2.0            | 1.35 (34.29)           |
| 58 N/S   | 0                |                 |                | 0.3 0.87 (22.10)       |
| 59 N/S   | 0.5              |                 |                | 0.3 0.87 (22.10)       |
| 60 N/S   | 1.0              |                 |                | 0.3 0.87 (22.10)       |
| 61 N/S   | 1.5              |                 |                | 0.3 0.87 (22.10)       |
| 62 N/S   | 2.0              |                 |                | 0.3 0.87 (22.10)       |
| 63 N/S   | 2.5              |                 |                | 0.3 0.87 (22.10)       |
| 64 N/S   | 3.0              |                 |                | 0.3 0.87 (22.10)       |

| DASH NO. | ATTENUATION   dB |                 |                |                | DIM A INCHES (MM) MAX. |
|----------|------------------|-----------------|----------------|----------------|------------------------|
|          | NOMINAL          | DEVIATION   (±) |                |                |                        |
|          |                  | DC to 2.0 GHz   | DC to 12.4 GHz | DC to 18.0 GHz |                        |
| 65 N/S   | 3.5              |                 |                | 0.3            | 0.87 (22.10)           |
| 66 N/S   | 4.0              |                 |                | 0.3            | 0.87 (22.10)           |
| 67 N/S   | 4.5              |                 |                | 0.3            | 0.87 (22.10)           |
| 68 N/S   | 5.0              |                 |                | 0.3            | 0.87 (22.10)           |
| 69 N/S   | 5.5              |                 |                | 0.3            | 0.87 (22.10)           |
| 70 N/S   | 6.0              |                 |                | 0.3            | 0.87 (22.10)           |
| 71 N/S   | 6.5              |                 |                | 0.3            | 0.87 (22.10)           |
| 72 N/S   | 7.0              |                 |                | 0.4            | 0.87 (22.10)           |
| 73 N/S   | 7.5              |                 |                | 0.4            | 0.87 (22.10)           |
| 74 N/S   | 8.0              |                 |                | 0.4            | 0.87 (22.10)           |
| 75 N/S   | 8.5              |                 |                | 0.4            | 0.87 (22.10)           |
| 76 N/S   | 9.0              |                 |                | 0.5            | 0.87 (22.10)           |
| 77 N/S   | 9.5              |                 |                | 0.5            | 0.87 (22.10)           |
| 78 N/S   | 10.0             |                 |                | 0.5            | 0.87 (22.10)           |
| 79 N/S   | 11.0             |                 |                | 0.5            | 0.87 (22.10)           |
| 80 N/S   | 12.0             |                 |                | 0.5            | 0.87 (22.10)           |
| 81 N/S   | 13.0             |                 |                | 0.5            | 0.94 (23.88)           |
| 82 N/S   | 14.0             |                 |                | 0.5            | 0.94 (23.88)           |
| 83 N/S   | 15.0             |                 |                | 0.6            | 1.04 (26.42)           |
| 84 N/S   | 16.0             |                 |                | 0.6            | 1.04 (26.42)           |
| 85 N/S   | 17.0             |                 |                | 0.6            | 1.04 (26.42)           |
| 86 N/S   | 18.0             |                 |                | 0.6            | 1.04 (26.42)           |
| 87 N/S   | 19.0             |                 |                | 0.6            | 1.04 (26.42)           |
| 88 N/S   | 20.0             |                 |                | 0.6            | 1.04 (26.42)           |
| 89 N/S   | 25.0             |                 |                | 1.0            | 1.04 (26.42)           |
| 90 N/S   | 30.0             |                 |                | 1.0            | 1.04 (26.42)           |
| 91 N/S   | 35.0             |                 |                | 1.0            | 1.35 (34.29)           |
| 92 N/S   | 40.0             |                 |                | 1.0            | 1.35 (34.29)           |
| 93 N/S   | 45.0             |                 |                | 1.0            | 1.35 (34.29)           |
| 94 N/S   | 50.0             |                 |                | 2.0            | 1.35 (34.29)           |
| 95 N/S   | 60.0             |                 |                | 2.0            | 1.35 (34.29)           |

|             |          |
|-------------|----------|
| DATE        | 7/14/92  |
| DESCRIPTION | RELEASED |
| REV.        | 1        |

|                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                 |                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------|
| UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE:<br><br>3 PLACE DECIMALS ±.005<br>2 PLACE DECIMALS ±.02<br>FRACTIONS ±1/64<br>PARALLELITY: T.I.R. _____<br>FLATNESS: T.I.R. _____<br>CONCENTRICITY: T.I.R. _____<br>ANGLES AND PERPENDICULARITY: ±1° | FSCW NO.<br><b>34078</b>                                                                                                          | <b>MIDWEST MICROWAVE</b>                        |                                                                  |
|                                                                                                                                                                                                                                                                         | NOTICE: The information contained in this drawing is proprietary and must not be used without the permission of Midwest Microwave |                                                 | TITLE<br>ATTENUATOR                                              |
|                                                                                                                                                                                                                                                                         | DRAWN/DATE<br>M.HOLLMAN<br>7/3/92<br>CHECKED/DATE<br>G.KOZAK<br>7/14/92                                                           | ENG/DATE<br>G.KOZAK<br>7/14/92<br>APPROVED/DATE | DRAWING NUMBER<br>M3933/25-XX(N or S)<br>SCALE: 1=1 SHEET 2 of 2 |