

## Excellent Integrated System Limited

Stocking Distributor

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[Bel Fuse Inc.](#)  
[M3933/25-02N](#)

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.

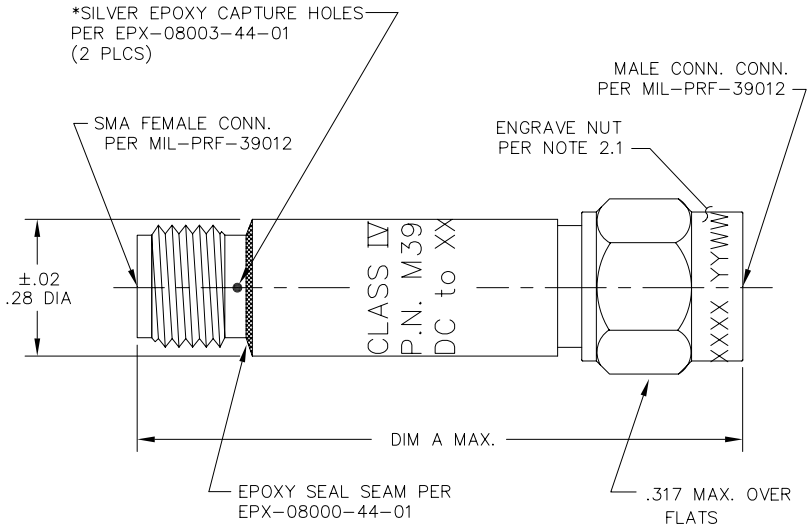
4.0 BAG MARKING:

MODEL M3933/25-YYY  
 ATTENUATOR FIXED COAXIAL LINE  
 2 WATTS AVERAGE INPUT POWER  
 FREQ. RANGE: DC-XX GHz  
 LOT NO. \_\_\_\_\_  
 DATE CODE: YYWW  
 YEAR & WEEK

SEE MODEL NO. FOR LAST 3 DIGITS

SEE TABLE ON SHT. 2

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



MODEL NUMBER  
M3933/25-XX(N or S)  
REV.  
H

| REV. | DESCRIPTION | DATE     |
|------|-------------|----------|
| I    | RELEASED    | 7/14/92  |
| A    | 13000       | 10/8/93  |
| B    | ECN 13307   | 2/4/94   |
| C    | ECN 13483   | 4/8/94   |
| D    | ECN 14231   | 1/16/95  |
| E    | ECN 18866   | 12/12/02 |
| F    | ECN 19058   | 2/25/03  |
| G    | ECN 19711   | 3/19/04  |
| H    | ECN 20764   | 3/10/06  |

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



MODEL NUMBER  
M3933/25-XX(N or S)  
REV. H

| 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 | DC to 18.0 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                    |
| 59 N/S   | 0.5            |               |                | 0.3                    |
| 60 N/S   | 1.0            |               |                | 0.3                    |
| 61 N/S   | 1.5            |               |                | 0.3                    |
| 62 N/S   | 2.0            |               |                | 0.3                    |
| 63 N/S   | 2.5            |               |                | 0.3                    |
| 64 N/S   | 3.0            |               |                | 0.3                    |

| 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                    |
| 66 N/S   | 4.0            |               |                | 0.3                    |
| 67 N/S   | 4.5            |               |                | 0.3                    |
| 68 N/S   | 5.0            |               |                | 0.3                    |
| 69 N/S   | 5.5            |               |                | 0.3                    |
| 70 N/S   | 6.0            |               |                | 0.3                    |
| 71 N/S   | 6.5            |               |                | 0.3                    |
| 72 N/S   | 7.0            |               |                | 0.4                    |
| 73 N/S   | 7.5            |               |                | 0.4                    |
| 74 N/S   | 8.0            |               |                | 0.4                    |
| 75 N/S   | 8.5            |               |                | 0.4                    |
| 76 N/S   | 9.0            |               |                | 0.5                    |
| 77 N/S   | 9.5            |               |                | 0.5                    |
| 78 N/S   | 10.0           |               |                | 0.5                    |
| 79 N/S   | 11.0           |               |                | 0.5                    |
| 80 N/S   | 12.0           |               |                | 0.5                    |
| 81 N/S   | 13.0           |               |                | 0.5                    |
| 82 N/S   | 14.0           |               |                | 0.5                    |
| 83 N/S   | 15.0           |               |                | 0.6                    |
| 84 N/S   | 16.0           |               |                | 0.6                    |
| 85 N/S   | 17.0           |               |                | 0.6                    |
| 86 N/S   | 18.0           |               |                | 0.6                    |
| 87 N/S   | 19.0           |               |                | 0.6                    |
| 88 N/S   | 20.0           |               |                | 0.6                    |
| 89 N/S   | 25.0           |               |                | 1.0                    |
| 90 N/S   | 30.0           |               |                | 1.0                    |
| 91 N/S   | 35.0           |               |                | 1.0                    |
| 92 N/S   | 40.0           |               |                | 1.0                    |
| 93 N/S   | 45.0           |               |                | 1.0                    |
| 94 N/S   | 50.0           |               |                | 2.0                    |
| 95 N/S   | 60.0           |               |                | 2.0                    |

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

|   |  |   |                                       |
|---|--|---|---------------------------------------|
| UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE: | FSCM NO.   | 34078   | MIDWEST MICROWAVE                     |
|   | 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° | 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  | ENG/DATE<br>G.KOZAK<br>7/14/92  | DRAWING NUMBER<br>M3933/25-XX(N or S) |
|   | CHECKED/DATE<br>G.KOZAK<br>7/14/92   | APPROVED/DATE   | SCALE: 1=1 SHEET 2 of 2               |