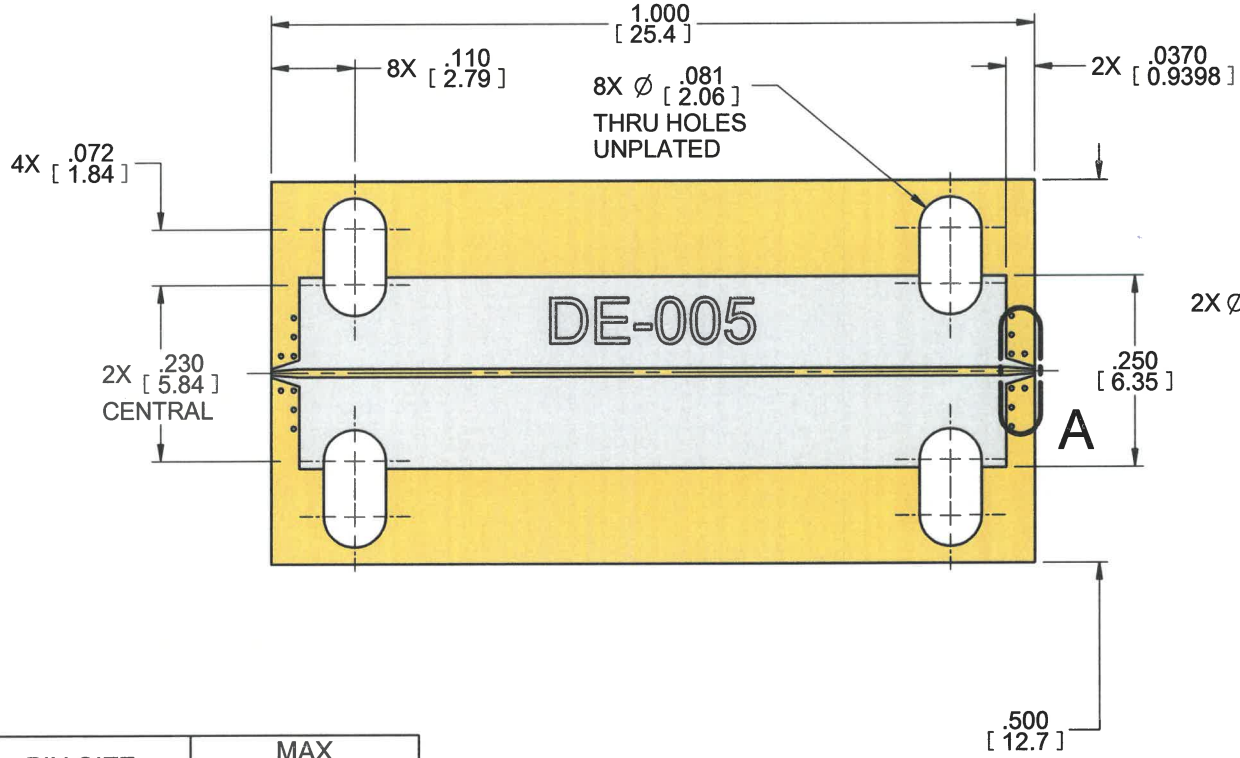
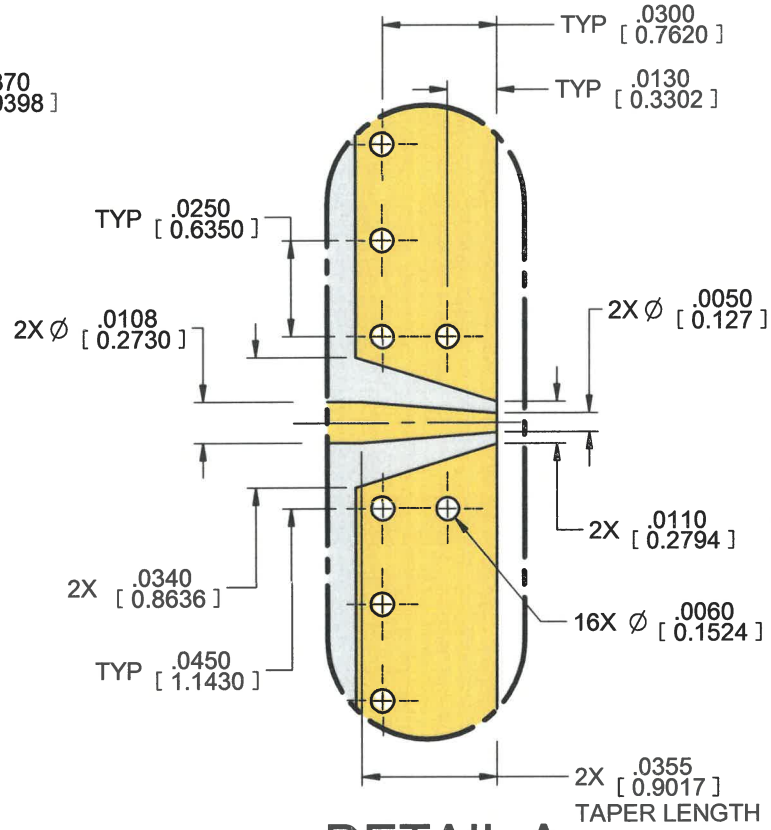
MODEL No.:

# B3003-5M-110






## DETAIL A

| PIN SIZE | MAX FREQUENCY |
|---|---|
| .009 / .005 | 110 GHz |

**DIELECTRIC INFORMATION:**

h = .005" DIELECTRIC THICKNESS

E = 3.00 DIELECTRIC CONSTANT

MATERIAL: R03003™

## LAYER STACK-UP

| | | |
|---|---|---|
| | | ← AIR ABOVE RF TRACE |
| LAYER 1 | PRIMARY (TOP) SIDE | ← .002" 1/2 oz Cu CONDUCTOR |
| | | ← .005" ROGERS R03003 CORE |
| LAYER 2 | GROUND PLANE | ← .002" 1/2 oz Cu CONDUCTOR |

DOCUMENT CONTROL
SEP 05 2019

2. THIS TRANSITION IS OPTIMIZED TO HAVE THE END LAUNCH CONNECTOR ELECTRICALLY CONNECTED TO LAYER 1 (TOP) AND LAYER 2 (GROUND). THE ELECTRICAL PERFORMANCE WILL SIGNIFICANTLY REDUCE IF ADDITIONAL SUBSTRATE AND CONDUCTOR LAYERS ARE PLACED BETWEEN LAYER 2 AND THE END LAUNCH CONNECTOR, EVEN IF PLATED.

1. ALL DIMENSIONS ARE IN INCHES. ALL ANGLES ARE IN DEGREES. DIMENSIONS SHOWN IN BRACKETS [XXX] ARE IN MILLIMETERS.

NOTES: UNLESS OTHERWISE SPECIFIED.

| REV | RELEASE | APRVD. | DATE: |
|---|---|---|---|
| A | | DE | 9/4/19 |

SOUTHWEST MICROWAVE

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TITLE: B3003-5M-110 (DE-005) TEST BOARD 5 MIL 3003 MS

| DRN BY: JAC | DATE: 08/19/19 | DWG. NO. | REV. |
|---|---|---|---|
| SCALE: 4:1 | | 91X68959 | A |
| SHEET: 1 OF 1 | | | |