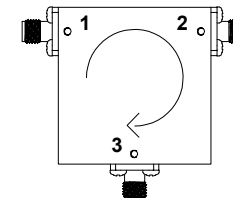
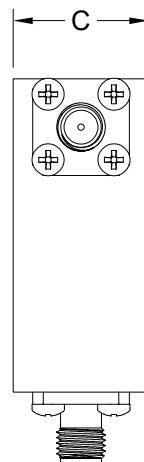
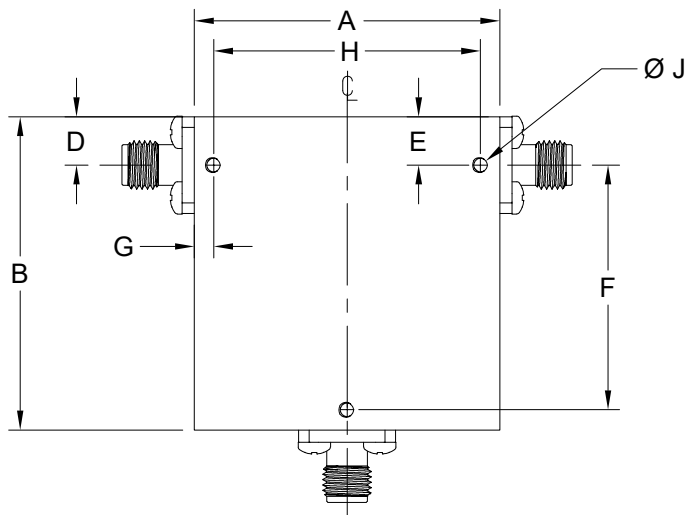


REVISION HISTORY

| REV | DESCRIPTION     | DATE      | APPROVED |
|-----|-----------------|-----------|----------|
| A   | INITIAL RELEASE | 3/11/2024 | DA       |



DIMENSIONS IN INCHES

| FIG. | A    | B    | C    | D    | E    | F    | G    | H    | J                        |
|------|------|------|------|------|------|------|------|------|--------------------------|
| 1    | 1.58 | 1.62 | 0.70 | 0.25 | 0.25 | 1.27 | 0.10 | 1.38 | #2-56 X 0.15 DP.         |
| 2    | 1.25 | 1.25 | 0.70 | 0.25 | 0.25 | 0.90 | 0.10 | 1.05 | #2-56 X 0.15 DP.         |
| 3    | 1.00 | 1.00 | 0.50 | 0.25 | 0.25 | 0.68 | 0.10 | 0.80 | #2-56 X 0.15 DP.         |
| 4    | 0.86 | 0.98 | 0.50 | 0.25 | 0.25 | 0.63 | 0.10 | 0.66 | #2-56 X 0.15 DP.         |
| 5    | 0.50 | 0.70 | 0.50 | 0.25 | 0.18 | 0.46 | 0.08 | 0.34 | #2-56 X 0.15 DP.         |
| 6    | 0.62 | 0.78 | 0.50 | 0.25 | 0.25 | 0.43 | 0.10 | 0.42 | #2-56 X 0.15 DP.         |
| 7    | 0.75 | 0.75 | 0.38 | 0.19 | 0.19 | 0.43 | 0.10 | 0.55 | #2-56 X 0.15 DP.         |
| 8    | 0.50 | 0.58 | 0.38 | 0.19 | 0.19 | --   | 0.10 | 0.30 | #0-80 X 0.08 DP., 2 PLC. |

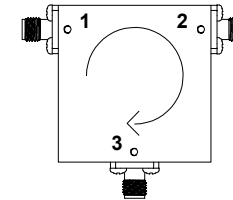
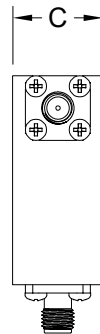
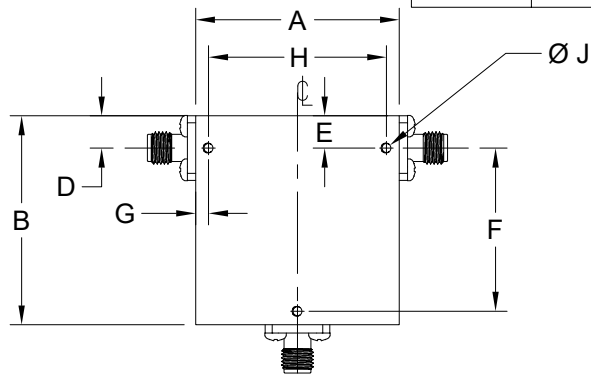
|   |         |
|---|---------|
| THIRD ANGLE PROJECTION:   |         |
| UNLESS OTHERWISE NOTED, DIMENSIONS ARE IN INCHES, TOLERANCES ARE:<br>FRACTIONS: ±1/64 ANGLES: ±1/2° MACHINED FINISH: 63 OR BETTER |         |
| DECIMALS<br>2 PLACE   | 3 PLACE |
| ±.01  | ±.003   |

|                   |         |
|-------------------|---------|
| APPROVALS         | DATE    |
| DRAWN Dirk Aubram | 3/11/24 |
| CHCKD.            |         |
| APRVD.            |         |
| MATERIAL          |         |
| TREATMENT         |         |
| FINISH            |         |

|                            |           |   |          |
|----------------------------|-----------|---|----------|
|                            |           | <small>THE INFORMATION IN THIS DRAWING IS PROPRIETARY AND SHALL NOT BE USED OR DISCLOSED WITHOUT THE PRIOR WRITTEN CONSENT OF IMPULSE TECHNOLOGIES INC.</small> |          |
| Circulator, SMA F, OUTLINE |           |   |          |
| SIZE                       | CAGE CODE | ITI DRAWING#  | REVISION |
| SCALE                      | MODEL#    |   | SHEET    |
| 1:1                        |           | 6CDA9 OTL-CIRCCOAX  | A        |
|                            |           | ITcXX-XX-ITI  | 1/2      |

REVISION HISTORY

| REV | DESCRIPTION     | DATE      | APPROVED |
|-----|-----------------|-----------|----------|
| A   | INITIAL RELEASE | 3/11/2024 | DA       |



OCTAVE BAND CIRCULATORS

| FREQ. (GHz) | ISO (dB) TYP. | ISO (dB) MIN. | IL (dB) TYP. | IL (dB) MAX. | VSWR TYP. | VSWR MAX. | POWER (W) AVG. | POWER (W) PK. | MODEL#         | OUTLINE DRAWING |
|-------------|---------------|---------------|--------------|--------------|-----------|-----------|----------------|---------------|----------------|-----------------|
| 1.0-2.0     | 20            | 15            | 0.35         | 0.5          | 1.25      | 1.35      | 2              | 20            | ITc1-2-ITI     |                 |
| 2.0-4.0     | 20            | 18            | 0.4          | 0.5          | 1.25      | 1.30      | 2              | 20            | ITc2-4-ITI     | FIG 1           |
| 2.6-5.2     | 20            | 18            | 0.4          | 0.5          | 1.25      | 1.30      | 2              | 20            | ITc2.6-5.2-ITI | FIG 1           |
| 3.0-6.0     | 21            | 19            | 0.35         | 0.4          | 1.25      | 1.30      | 2              | 20            | ITc3-6-ITI     | FIG 2           |
| 4.0-8.0     | 22            | 20            | 0.35         | 0.4          | 1.18      | 1.25      | 2              | 20            | ITc4-8-ITI     | FIG 3           |
| 5.0-10.0    | 16            | 15            | 0.9          | 1            | 1.4       | 1.45      | 2              | 20            | ITc5-10-ITI    | FIG 7           |
| 6.0-12.4    | 19            | 17            | 0.5          | 0.6          | 1.3       | 1.35      | 2              | 20            | ITc6-12-ITI    | FIG 6           |
| 8.0-12.4    | 22            | 20            | 0.35         | 0.5          | 1.18      | 1.25      | 2              | 30            | ITc8-12.4-ITI  | FIG 4           |
| 12.0-18.0   | 22            | 20            | 0.45         | 0.5          | 1.18      | 1.25      | 2              | 30            | ITc12-18-ITI   | FIG 5           |

WIDE BAND CIRCULATORS

| FREQ. (GHz) | ISO (dB) TYP. | ISO (dB) MIN. | IL (dB) TYP. | IL (dB) MAX. | VSWR TYP. | VSWR MAX. | POWER (W) AVG. | POWER (W) PK. | MODEL#         | OUTLINE DRAWING |
|-------------|---------------|---------------|--------------|--------------|-----------|-----------|----------------|---------------|----------------|-----------------|
| 2.0-8.0     |               | 10            |              | 1.5          |           | 2         | 2              | 20            | ITc2-8-ITI     | FIG 1           |
| 6.0-18.0    | 15            | 14            | 0.9          | 1            | 1.45      | 1.5       | 2              | 20            | ITc6-18-ITI    | FIG 8           |
| 8.0-18.0    | 17            | 16            | 0.7          | 0.8          | 1.4       | 1.45      | 2              | 30            | ITc8-18-ITI    | FIG 5           |
| 18.0-26.5   | 20            | 18            | 0.7          | 0.8          | 1.35      | 1.4       | 2              | 30            | ITc18-26.5-ITI | FIG 5           |
| 26.5-40.0   | 15            | 14            | 0.8          | 1.0          | 1.45      | 1.5       | 2              | 30            | ITc26.5-40-ITI | FIG 5           |

|   |         |
|---|---------|
| THIRD ANGLE PROJECTION:   |         |
| UNLESS OTHERWISE NOTED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE:<br>FRACTIONS: ±1/64 ANGLES: ±1/2° MACHINED FINISH: 63 OR BETTER |         |
| DECIMALS<br>2 PLACE   | 3 PLACE |
| ±.01  | ±.003   |

|                   |         |
|-------------------|---------|
| APPROVALS         | DATE    |
| DRAWN Dirk Aubram | 3/11/24 |
| CHCKD.            |         |
| APRVD.            |         |
| MATERIAL          |         |
| TREATMENT         |         |
| FINISH            |         |

|           |                     |                            |                           |
|-----------|---------------------|----------------------------|---------------------------|
|           |                     | Circulator, SMA F, OUTLINE |                           |
|           |                     | SIZE 6CDA9                 | TTI DRAWING# OTL-CIRCCOAX |
| SCALE 1:1 | MODEL# ITcXX-XX-ITI | REVISION A                 | SHEET 2/2                 |

THE INFORMATION IN THIS DRAWING IS PROPRIETARY AND SHALL NOT BE USED OR DISCLOSED WITHOUT THE PRIOR WRITTEN CONSENT OF IMPULSE TECHNOLOGIES INC.