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# FERRITE ISOLATORS AND CIRCULATORS

STANDARD DESIGNS



## POPULAR OCTAVE BANDS — STANDARD DESIGNS

These units are internally terminated circulators (isolators) with SMA female connectors. Many are available from stock.

| Frequency (GHz) | Model No. | Isolation (dB min.) | Insertion Loss (dB max.) | VSWR (max.) | Size Height | Size Width | Size Thickness |
|---|---|---|---|---|---|---|---|
| 0.5 - 1.0 | T-0S63T | 17 | 0.8 | 1.35:1 | 5.78 | 5.59 | 1.35 |
| 1.0 - 2.0 | T-1S63T-18 | 18 | 0.5 | 1.30:1 | 2.75 | 2.75 | 0.88 |
| 2.0 - 4.0 | T-2S63T-6 | 17 | 0.5 | 1.35:1 | 1.63 | 1.63 | 0.75 |
| 2.6 - 5.2 | T-2S63T-44 | 17 | 0.5 | 1.35:1 | 1.25 | 1.25 | 0.70 |
| 4.0 - 8.0 | T-4S63T-10 | 17 | 0.4 | 1.35:1 | 1.06 | 1.00 | 0.76 |
| 4.5 - 9.0 | T-4S63T-13 | 17 | 0.5 | 1.35:1 | 1.13 | 0.95 | 0.76 |
| 5.2 - 10.4 | T-5S63T | 17 | 0.5 | 1.35:1 | 1.06 | 1.00 | 0.76 |
| 8.0 - 16.0 | T-8S63T-18 | 17 | 0.5 | 1.35:1 | 0.75 | 0.63 | 0.40 |
| 10.0 - 20.0 | T-10S63T-5 | 17 | 0.7 | 1.35:1 | 0.68 | 0.51 | 0.56 |

## S-T-R-E-T-C-H OCTAVE BANDS — STANDARD DESIGNS

Both circulators and isolators are available with either SMA-male or female connectors. Model Nos. shown are isolator versions with SMA-female connectors.

| Frequency (GHz) | Model No. | Isolation (dB min.) | Insertion Loss (dB max.) | VSWR (max.) | Size Height | Size Width | Size Thickness |
|---|---|---|---|---|---|---|---|
| 1.7 - 4.2 | T-1S83T-2 | 16 | 0.7 | 1.50:1 | 1.70 | 1.63 | 0.76 |
| 2.0 - 4.5 | T-2S73T-4 | 16 | 0.6 | 1.40:1 | 1.70 | 1.56 | 1.10 |
| 3.7 - 8.2 | T-3S73T-2 | 16 | 0.7 | 1.40:1 | 1.06 | 1.00 | 0.76 |
| 4.4 - 10.0 | T-4S73T-2 | 16 | 0.7 | 1.40:1 | 1.13 | 0.95 | 0.76 |
| 5.9 - 13.0 | T-5S73T-1 | 17 | 0.6 | 1.35:1 | 0.81 | 0.63 | 0.80 |
| 7.6 - 18.0 | T-7S83T-20 | 16 | 0.8 | 1.50:1 | 0.76 | 0.63 | 0.62 |

## POPULAR NARROW BAND — STANDARD DESIGNS

| Frequency (GHz) | Model No. | Isolation (dB min.) | Insertion Loss (dB max.) | VSWR (max.) | Size Height | Size Width | Size Thickness |
|---|---|---|---|---|---|---|---|
| .95 - 1.225 | T-0S23T-2 | 20 | 0.5 | 1.25:1 | 1.20 | 1.20 | 0.75 |
| 1.2 - 1.6 | T-1S23T-7 | 17 | 0.5 | 1.35:1 | 1.25 | 1.25 | 0.70 |
| 1.9 - 2.3 | T-1S13T-2 | 20 | 0.4 | 1.30:1 | 1.25 | 1.25 | 0.75 |
| 2.2 - 2.3 | T-2S03T-11 | 20 | 0.4 | 1.35:1 | 1.05 | 1.00 | 0.58 |
| 3.7 - 4.2 | T-3S13T-9A | 25 | 0.25 | 1.10:1 | 0.75 | 0.75 | 0.50 |
| 4.4 - 6.5 | T-4S33T-1 | 17 | 0.5 | 1.35:1 | 0.75 | 0.75 | 0.50 |
| 5.9 - 6.4 | T-5S03T-3A | 26 | 0.3 | 1.10:1 | 0.75 | 0.75 | 0.69 |
| 7.0 - 11.0 | T-7S43T-6 | 28 | 0.4 | 1.10:1 | 0.85 | 0.75 | 0.50 |
| 8.0 - 12.4 | T-8S43T-1A | 17 | 0.4 | 1.35:1 | 0.78 | 0.63 | 0.70 |
| 12.4 - 18.0 | T-12S43T-8 | 18 | 0.5 | 1.30:1 | 0.68 | 0.51 | 0.56 |
| 18.0 - 26.5 | T-18S33T-7 | 16 | 1.0 | 1.50:1 | 0.68 | 0.51 | 0.53 |

**SPECIAL DESIGNS**

- Multi-Junction 4, 5, 6 or more Ports
- Stripline Tab Drop-Ins
- Special RF Power Requirements
- N or TNC Connectors (lower frequency units only)

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