

# TMP-C Series

## 1 GHz Hardline Digital Directional Couplers

### Features

- 5MHz to 1GHz bandwidth performance
- Bi-directional power rating to 15 amps @ 30, 60 and 90Vac provide compatibility with most systems
- Can be configured to be power passing on either the thru ports or tap port or both for installation flexibility
- Housing top stainless steel mounting hardware for easy installation
- Epoxy coated aluminum alloy housing with tongue in groove interface provides 100dB effective EMI/RFI shielding reducing ingress/egress signals
- Extended connector collars provide shoulder for good heat shrink bonding, eliminating connector water migration extending life of housing
- Rotating internal seizing pins provide installation flexibility allowing installation options
- Performance tests conducted conforming with SCTE standards IPS TP-201, 202 and 203



### Specifications

| TMP-C8                   | 5-10MHz      | 10-400MHz | 400-600MHz | 600-750MHz | 750-900MHz | 900-1000MHz |
|--------------------------|--------------|-----------|------------|------------|------------|-------------|
| Thru Loss (In-Out) max   | 1.6          | 1.8       | 2.0        | 2.1        | 3.0        | 3.5         |
| Tap Loss ( $\pm 1.5$ dB) | 8            | 8         | 8          | 8          | 8          | 8           |
| Isolation (Out-Tap) min  | 18           | 25        | 25         | 25         | 21         | 19          |
| Return Loss - All Ports  | 16           | 18        | 18         | 16         | 16         | 16          |
| Power Passing            | 15A @ 90 VAC |           |            |            |            |             |
| EMI                      | 100dB        |           |            |            |            |             |

| TMP-C12                  | 5-10MHz      | 10-400MHz | 400-600MHz | 600-750MHz | 750-900MHz | 900-1000MHz |
|--------------------------|--------------|-----------|------------|------------|------------|-------------|
| Thru Loss (In-Out) max   | 1.1          | 1.2       | 1.4        | 1.6        | 2.4        | 2.7         |
| Tap Loss ( $\pm 1.5$ dB) | 12           | 12        | 12         | 12         | 12         | 12          |
| Isolation (Out-Tap) min  | 20           | 26        | 26         | 26         | 24         | 22          |
| Return Loss - All Ports  | 16           | 18        | 16         | 16         | 16         | 16          |
| Power Passing            | 15A @ 90 VAC |           |            |            |            |             |
| EMI                      | 100dB        |           |            |            |            |             |

| TMP-C16                  | 5-10MHz      | 10-400MHz | 400-600MHz | 600-750MHz | 750-900MHz | 900-1000MHz |
|--------------------------|--------------|-----------|------------|------------|------------|-------------|
| Thru Loss (In-Out) max   | 1.1          | 1.5       | 1.3        | 1.7        | 2.2        | 2.5         |
| Tap Loss ( $\pm 1.5$ dB) | 16           | 16        | 16         | 16         | 16         | 16          |
| Isolation (Out-Tap) min  | 22           | 28        | 28         | 28         | 28         | 23          |
| Return Loss - All Ports  | 16           | 18        | 16         | 16         | 16         | 16          |
| Power Passing            | 15A @ 90 VAC |           |            |            |            |             |
| EMI                      | 100dB        |           |            |            |            |             |

### Ordering Information

- TMP-C8** 1GHz Hardline Digital Directional Couplers  
**TMP-C12** 1GHz Hardline Digital Directional Couplers  
**TMP-C16** 1GHz Hardline Digital Directional Couplers