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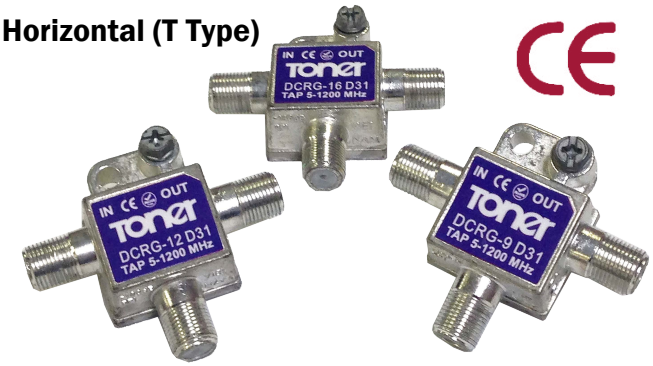
DCRG/DCWRG Series

DOCSIS 3.1 Compatible 1.2 GHz Directional Coupler Taps

DCRG-*D31 Horizontal (T Type)



DCWRG-*D31 Right Angle (Wall Plate Type)

Features

- Solder Back
- DOCSIS 3.1 Compatible
- 5 MHz to 1.2 GHz Bandwidth
- 5-85 MHz Upstream
- 105-1220 MHz Downstream
- Minimum 120 dB RFI Shielding
- Low Intermod Distortions < 100 dB
- Nickel Plated Zinc Alloy Housing
- 15 PSI Waterproofed F Ports
- 200 G Center Conductor Retention
- 75 Ohm Impedance
- Machined F Connectors On 1” Spacing
- Blocking Capacitor On All Ports
- Integral Ground Block
- 6 kV Ring Wave Surge Protection

This new series of drop ůŀ·Ljă from Toner are designed to work in digital systems deploying DOCSIS 3.1 that utilizes the 5-85 MHz spectrum for upstream, and the 105 to 1220 MHz spectrum for downstream. By using the latest in ferrite core and winding technology along with premium PC boards and components we have been able to increase bandwidth without any sacrifice in performance.

These ůŀ·Ljă feature a diecast zinc alloy housing with a nickel plating for superior corrosion resistance. Each F port is machined with 3/8-32 UNEF threads to meet SCTE and ANSI specifications and incorporates a patented seal that is waterproof to 15 PSI. The seizure mechanism for the center conductor is also patented and contacts the center conductor on 4 sides and provides more than 200g of retention force which ensures correct electrical contact. The F ports are on 1” spacing which meets SCTE & ANSI specifications.

All of these ůŀ·Ljă feature DC blocking capacitors on all ports for power isolation protection and for induced spikes protection. These ůŀ·Ljă feature superior performance, low intermediation distortions and meet or exceed all current industry standards.

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DCRG/DCWRG Series

DOCSIS 3.1 Compatible 1.2 GHz Directional Coupler Taps

Specifications

DCRG / DCWRG	3	6	9	12	16	20	24	27	30
Insertion Loss									
5-550 MHz	3.5	2.2	1.6	1	0.8	0.8	0.8	0.8	0.8
550-1220 MHz	4	2.9	1.9	1.5	1.3	1.2	1	1	1
Tap Loss									
5-550 MHz	3.5 ± 1.0	6.0 ± 1.1	9.0 ± 0.9	12.0 ± 0.9	16.0 ± 0.9	20.0 ± 0.9	24.0 ± 1.0	27.0 ± 1.1	30.0 ± 1.1
550-1220 MHz	4.0 ± 1.0	6.0 ± 1.1	9.0 ± 1.1	12.0 ± 1.1	16.0 ± 1.1	20.0 ± 1.1	24.0 ± 1.1	27.0 ± 1.1	30.0 ± 1.1
Isolation									
5-15 MHz	35	31	31	29	37	37	37	37	37
15-85 MHz	38	34	34	34	37	37	37	37	37
85-300 MHz	35	27	29	29	29	29	29	29	29
300-1002 MHz	30	25	27	27	29	29	29	29	29
1002-1220 MHz	27	23	25	25	29	29	29	29	29
Isolation									
Input & Out									
5-85 MHz	25	21	21	21	21	20	20	20	20
85-1220 MHz	19	19	19	19	19	19	19	19	19
Tap									
5-85 MHz	21	21	21	21	21	21	21	21	21
85-1220 MHz	19	19	19	19	19	19	19	19	19

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