

# Toner

## TGT4 Series

### DOCSIS 3.1 Compatible 1.2 GHz Digital 4 Port Taps

**Toner**  
cable equipment, inc.  
www.tonercable.com

#### 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



**TGT4-\*D31**



This new series of TGT4 Series 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 TGT4 Series 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 TGT4 Series feature DC blocking capacitors on all ports for power isolation protection and for induced spikes protection. These TGT4 Series feature superior performance, low intermediation distortions and meet or exceed all current industry standards.

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**Specifications**

TGT4-	8T	11 dB	14 dB	17 dB	20 dB	23	26	29	32
<b>Insertion Loss</b>									
5-85 MHz	-	3.5	2.6	1.5	1.0	1.0	1.0	1.0	1.0
85-300 MHz	-	3.5	2.6	1.5	1.0	1.0	1.0	1.0	1.0
300-1000 MHz	-	4.0	3.0	2.0	1.5	1.2	1.2	1.2	1.2
1000-1200 MHz	-	4.3	3.2	2.4	1.7	1.6	1.4	1.4	1.4
<b>Tap Loss</b>									
5-85 MHz	7.0±1.0	11±1.0	14±1.0	17±1.0	20±1.0	23±1.0	26±1.0	29±1.0	32±1.0
85-300 MHz	7.0±1.0	11±1.0	14±1.0	17±1.0	20±1.0	23±1.0	26±1.0	29±1.0	32±1.0
300-1000 MHz	7.0±1.0	11±1.0	14±1.0	17±1.0	20±1.0	23±1.0	26±1.0	29±1.0	32±1.0
1000-1200 MHz	7.0±1.0	11±1.0	14±1.0	17±1.0	20±1.0	23±1.0	26±1.0	29±1.0	32±1.0
<b>Isolation (Tap Output)</b>									
5-10 MHz	-	35	35	35	35	38	38	38	38
10-85 MHz	-	35	35	35	35	40	40	40	40
85-300 MHz	-	30	30	30	30	33	35	35	35
300-1000 MHz	-	26	26	26	30	30	30	30	30
1000-1200 MHz	-	25	25	25	28	28	28	28	28
<b>Isolation (Port-to-Port)</b>									
5-10 MHz	30	30	30	30	30	30	30	30	30
10-85 MHz	30	30	30	30	30	30	30	30	30
85-300 MHz	30	30	30	30	30	30	30	30	30
300-1000 MHz	27	27	27	27	27	27	27	27	27
1000-1200 MHz	25	25	25	25	25	25	25	25	25
<b>Return Loss</b>									
<b>Input &amp; Out</b>									
5-10 MHz	20	20	20	20	20	20	20	20	20
10-85 MHz	20	20	20	20	20	20	20	20	20
85-1000 MHz	20	20	20	20	20	20	20	20	20
1000-1200 MHz	20	20	20	20	20	20	20	20	20
<b>Tap</b>									
5-10 MHz	20	20	20	20	20	20	20	20	20
10-85 MHz	20	20	20	20	20	20	20	20	20
85-1000 MHz	20	20	20	20	20	20	20	20	20
1000-1200 MHz	20	20	20	20	20	20	20	20	20