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- Frequency range 12 1825 MHz
- Best in class RF performance
- Modem Safe surge protection on all ports
 preventing intermodulation
- CPD Safe corrosion protection using White Bronze plating
- F-connectors provide superb retention force





Overview

The Core series is our next generation of installation passives which excel in both electrical and mechanical performance. Though designed for indoor use, they are also specified for use in street-side plant. The products are easy to install with a compact housing, specifically sized to make replacement and upgrade installation simple.

Intermodulation performance, which is an important factor in high-level return path signals, has been greatly improved through a newly developed ferrites and specially designed circuits. The intermodulation performance remains very high even after being exposed to electrical surges from the network on all ports.

The screening effectiveness meets the Class A++ requirements defined in EN 50083-2:2012 across the whole frequency range from 12 to 1825 MHz. To provide maximum protection against interference from 4G/5G signals.

Technetix Modem Safe®

Technetix Modem Safe® is a highly effective surge protection solution for sensitive network and in-home CPE. This technology is based on passive circuits and is not reliant on discharge tubes, therefore extending the lifespan of the solution.

- Blocks high and low voltage pulses and unwanted DC voltages
- Prevents internal ferrites within the product from becoming magnetised (avoiding deterioration in the performance of CPE)
- Drives fewer reported faults, improving customer service and reducing truck rolls

Technetix CPD Safe™

Common Path Distortion (CPD) is well known for producing signal interference in the network. It is caused by electrolytic corrosion or the oxidisation of dissimilar metals when in close contact. Technetix CPD Safe™ technology protects against CPD.

- Removes a primary cause of CPD
- Reduces signal interference in the network
- Drives fewer reported faults, improving customer service and reducing truck rolls

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Insertion loss

	CSTZ-02	CSTZ-03	CSTZ-33	CSTZ-04	CSTZ-06	CSTZ-08	
Frequency	Max	Max	Max	Max	Max	Max	Notes
12	4.0	6.0	4.0 / 7.5	7.5	9.5	11.2	1, 2, 3
200	4.2	6.2	4.2 / 7.7	7.7	9.8	11.4	1, 2, 3
750	4.6	6.9	4.6 / 8.2	8.2	10.5	11.9	1, 2, 3
860	4.7	7.0	4.7 / 8.3	8.3	10.7	12	1, 2, 3
1006	4.8	7.2	4.8 / 8.5	8.5	10.9	12.2	1, 2, 3
1218	5.0	7.4	5.0 / 8.7	8.7	11.2	12.4	1, 2, 3
1825	5.5	8.1	5.5 / 9.3	9.3	12	13	1, 2, 3

Isolation

	CSTZ-02	CSTZ-03	CSTZ-33	CSTZ-04	CSTZ-06	CSTZ-08	
Frequency	Min	Min	Min	Min	Min	Min	Notes
12	25	25	30	25	25	25	1, 2, 3
47	30	25	30	25	25	25	1, 2, 3
1218	20	20	20	20	20	20	1, 2, 3
1825	20	20	20	20	20	20	1, 2, 3

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Return loss

	CSTZ-02	CSTZ-03	CSTZ-33	CSTZ-04	CSTZ-06	CSTZ-08	
Frequency	Min	Min	Min	Min	Min	Min	Notes
12	16	16	16	16	16	16	1, 2, 3
15	18	18	18	18	18	18	1, 2, 3
30	20	20	20	20	18	18	1, 2, 3
100	20	20	20	20	18	18	1, 2, 3

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	CSTZ-02	CSTZ-03	CSTZ-33	CSTZ-04	CSTZ-06	CSTZ-08	
200	19	19	19	19	17	17	1, 2, 3
400	18	18	18	18	16	16	1, 2, 3
800	17	17	17	17	16	16	1, 2, 3
1218	15	16	16	16	16	16	1, 2, 3
1825	15	15	16	16	16	16	1, 2, 3

Electrical specifications

Para	Parameter		Min	Тур	Max	Units	Notes
Frequency			12		1825	dB	
Impedance				75		Ohm	
Surge	All ports				1	kV	7
	Before surge				122	dBc	4
Intermodulation p+q	After 25V surge				115	dBc	5
	After 1kV surge				115	dBc	6
		12-30	100 / 2.5			dΒ / mΩ/m	8
Screening class A++		30-1000	105			dB	8
		1000-1825	95			dB	8

Environmental specifications

Parameter		Frequency	Min	Max	Units	Details	Notes
		Operational	-15	45	°C		2
Temperature		Operational Extended	-40	85	°C		3
		Storage	-40	70	°C		
	Temperature Cycle					EN 60068-2-14	

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Parameter	Standard	Severity
IP rating	EN 60529 1992	IP68
Drop test	EN 60068-2-31:2008	Rough handling shocks (9)
Dry heat	EN 60068-2-2 2007	85oC, 72 hrs
Temp Cycling with Humidity	EN 60068-2-30:2005	55 oC, 6 cycles, 95% RH
Vibration	EN 60068-2-6	Amplitude of 0.15mm or 20m/s2, the frequency varying exponentially with time from 10 Hz and 150Hz and back. One cycle taking 5 mins.
Salt Fog	EN 60068-2-52 2018	Test Method 4 (14 Days)

Mechanical specifications

Parar	neter	Frequency	Details
	F-Connectors		EN 61169-24
Connectors	Conductor size acceptance	0.64 - 1.30 mm	Enhancement on EN 61169-24
	Withdrawal force	115 grams	After cycle 0.7mm, 1.2mm, 0.7mm 1.2mm, 0.7mm
Conductors	Inner contact		BeCu Silver Plated
Housing material	Body		Die-Cast Zinc alloy, White Bronze plated
	Lid		Mild Steel

Not	es
1	Point to point linear limit line
2	Deviation over operation temperature range: +/-0.5dB insertion loss. +2dB Isolation and return loss
3	Deviation over extended operational temperature: +/-1dB insertion loss. +5dB Isolation and return loss
4	Two carriers (60 & 65MHz), Out to Out, @ 120dBuV, Fully Demagnetized
5	Two carriers (60 & 65MHz), Out to Out, Out to Tap (worse case), @ 120dBuV, after 10 pulses (25V/1.2uS rise time / 500uS duration) at All ports.
6	Two carriers (60 & 65MHz), Out to Out, Out to Tap (worse case), @ 120dBuV, after 1x positive and 1x negative pulses (1kV/1.2uS rise time / 50uS fall time) at All Ports.
7	Surge pulse 1kV/1.2uS rise time / 50uS fall time (IEC61000-4-5:1995) 2 Ω source impedance (1x positive and 1x negative)
8	IEC 62153-7 § 5.5, IEC 60728-2 and EN-50083 (Transfer impedance method, Absorbing Clamp)
9	0.5dB degradation in insertion loss and 3 dB degradation in return loss and isolation permissible over temperature range

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Ordering information					
Item number	Item code	Description			
19014126	CSTZ-02	CORE 2-WAY TOPLESS SPLITTER 1.8GHZ			
19014127	CSTZ-03	CORE 3-WAY TOPLESS SPLITTER 1.8GHZ			
19014128	CSTZ-04	CORE 4-WAY TOPLESS SPLITTER 1.8GHZ			
19014129	CSTZ-06	CORE 6-WAY TOPLESS SPLITTER 1.8GHZ			
19014130	CSTZ-08	CORE 8-WAY TOPLESS SPLITTER 1.8GHZ			
19014131	CSTZ-33	CORE 3-WAY TOPLESS SPLITTER 1.8GHZ UNBAL			



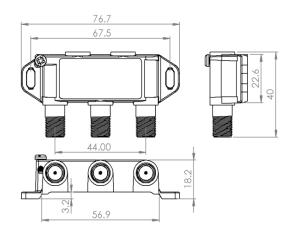


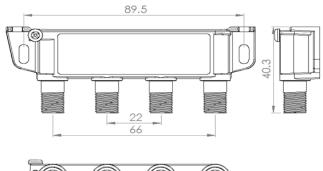




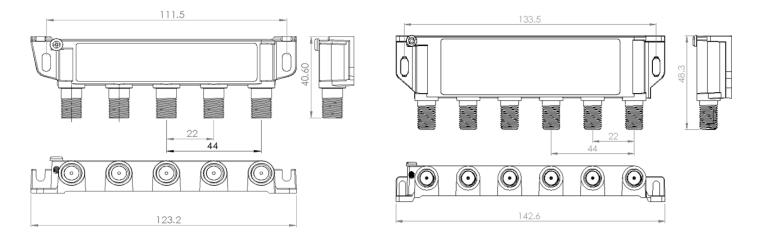
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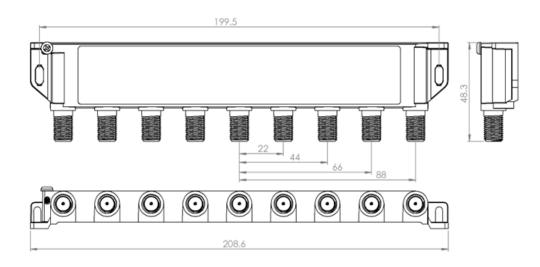
Product Overview











Technetix Group Limited October 2022 - V1

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