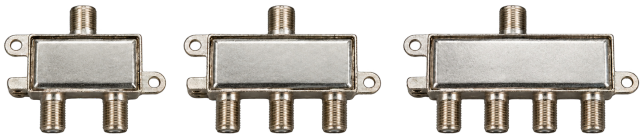
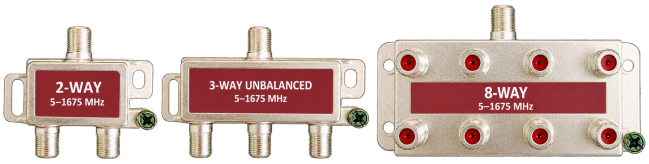
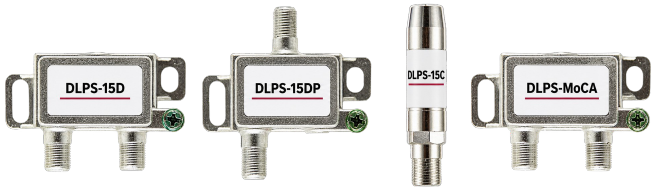
PRODUCT FAMILIES AND TECHNICAL SELECTIONS

HFC and Coaxial RF Distribution

Splitters, taps, directional couplers and drop-line protection for network design, product selection and recurring supply.







SPLITTERS / TAPS / MoCA / SURGE PROTECTION

A broader portfolio for your network

Explore selected ComponexX configurations by application and frequency range. Compare the model references and electrical limits, then discuss the right configuration for your network or replacement requirement.

Find the Product You Need

Choose the signal path, then compare the model-specific limits.

Product / model	Page
Outdoor splitters — OD-102S / OD-103S	4
Outdoor taps — OD-102T / OD-104T / OD-108T	5
Indoor splitter housings — A / B / C / DS / HS / H / 03	7
C Series electrical limits / E Series surge withstand	9
Indoor taps — A / B / C / DS / HS / HW / HX	11
MoCA — compact and horizontal/vertical platforms	14
1800 MHz — LS-2F / LS-3FUB / LS-4F	16
2500 MHz — C-252S / C-253S / C-254S	17
Wideband splitters and taps — up to 3200 MHz	18
1 GHz — CX-SP splitters / CX-DC couplers	21
Coaxial surge protection — DLPS	22

Compare the same conditions

Keep frequency band, port arrangement and power path with each model. Insertion and through loss are maxima; return loss and isolation are minima unless stated otherwise.

Related product sheets: HPNA splitters, CX-202C / CX-203C power-pass splitters, CPX-RG6-CF connectors and CPX-ATT attenuators are available in Technical Resources.

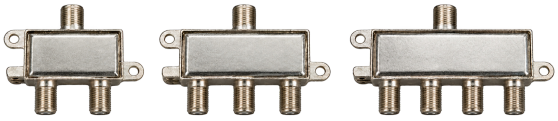
PRODUCT FAMILIES

From Network Distribution to the Drop

Explore the mechanical format and network function first. Electrical limits and ordering references remain specific to each platform.

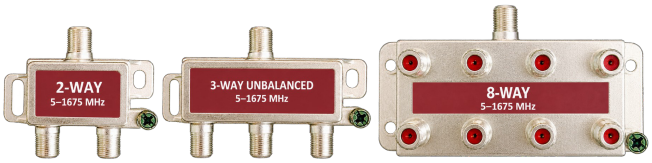
Outdoor splitters and taps

1218 MHz families with housing, tap-value and power-passing selections.



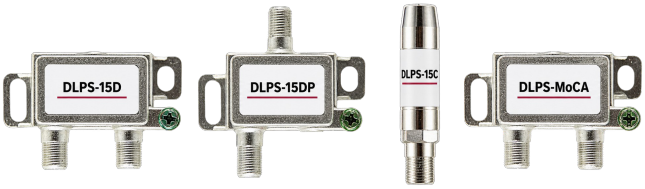
Indoor and broadband distribution

Splitter and directional-tap platforms with family-specific frequency coverage.



MoCA coaxial distribution

Distinct compact and horizontal/vertical platforms for the selected network.



Drop-line surge protection

Four DLPS mechanical formats for the required mounting arrangement.

Select the model and its RF table. For replacement applications, compare electrical performance, dimensions and interfaces.

5-1218 MHz / OD-102S / OD-103S

Outdoor Splitters

2-way, unbalanced 3-way and balanced 3-way distribution. Electrical family reference for OD housing selection.

Maximum insertion loss

Frequency MHz	2-way	3-way low / high	3-way balanced
5-47	3.5	3.5 / 7.0	5.2
48-450	3.7	3.7 / 7.2	5.5
451-750	3.8	3.9 / 7.4	5.8
751-1000	4.0	4.0 / 7.9	6.2
1001-1218	4.4	4.4 / 8.4	6.8

Minimum output isolation

Frequency MHz	2-way	3-way low / high	3-way balanced
5-47	25	25	25
48-470	25	23	23
471-860	23	23	23
861-1000	22	22	22
1001-1218	20	20	20

Minimum input and output return loss

Frequency MHz	2-way	3-way low / high	3-way balanced
5-1000*	18 / 18	18 / 18	18 / 18
1001-1218	16 / 16	16 / 16	16 / 16

*The combined row covers 5-47, 48-450, 451-750 and 751-1000 MHz. For unbalanced 3-way configurations, paired values identify the low-loss / high-loss arms.

Construction and operating conditions

Powder-coated A360 aluminum housing; 75-ohm F ports; AC/RF bypass with the faceplate removed. Specified power passing: 12 A, 60/90 VAC, 50 Hz. Underwater pressure test: 15 psi for 60 seconds. RFI shielding: >100 dB. Leakage and signal continuity tested.

Specify cable-entry interfaces, mounting and the required power frequency with the order.

5-1218 MHz / OD-102T / OD-104T / OD-108T

Outdoor Tap Selection

Select the number of subscriber ports and nominal coupling value before reviewing the through-path budget.

8-port outdoor tap format

Housing	Outputs	Nominal tap values in dB
OD-102T	2 outputs	8, 11, 14, 17, 20, 23, 27, 30, 32
OD-104T	4 outputs	11, 14, 17, 20, 23, 27, 30, 32
OD-108T	8 outputs	14, 17, 20, 23, 27, 30, 32

Ordering reference = housing + nominal tap value + dB. Example: OD-104T-20dB. All values listed above are separate configurations; see the family electrical reference on page 6.

Construction / operation	Specification
Housing and pressure test	A360 aluminum; powder coating; 15 psi underwater for 60 s
Bypass and power passing	Faceplate removed: AC/RF bypass; 12 A, 60/90 VAC, 50 Hz
Shielding and linearity	RFI >100 dB; intermodulation >105 dB; second harmonics >110 dB
Ports	75-ohm F ports; specified surge withstand 1 kV per port

Confirm the selected housing drawing, power-frequency requirement and model-specific acceptance criteria when evaluating a replacement.

5-1218 MHz / OD TAP FAMILY

Outdoor Tap RF Reference

Family design reference by nominal tap group. Final performance depends on both tap value and port count; these are not individual-model guarantees.

Tap loss relative to nominal

Frequency MHz	Low group 6-12 dB	Mid group 14-17 dB	High group 20-32 dB
5-1000*	Nominal +/-1.5	Nominal +/-1.5	Nominal +/-1.5
1001-1218	Nominal +/-2.0	Nominal +/-2.0	Nominal +/-2.0

Maximum through loss

Frequency MHz	Low group 6-12 dB	Mid group 14-17 dB	High group 20-32 dB
5-47	2.6	1.3	1.0
48-450	2.8	1.2	0.8
451-750	3.0	1.8	1.1
751-1000	3.2	2.3	1.3
1001-1218	3.4	2.5	1.5

Minimum tap to output isolation

Frequency MHz	Low group 6-12 dB	Mid group 14-17 dB	High group 20-32 dB
5-47	23	24	26
48-450	23	24	26
451-750	20	20	22
751-1000	20	20	22
1001-1218	18	18	20

Minimum return loss: input, output and tap

Frequency MHz	Low group 6-12 dB	Mid group 14-17 dB	High group 20-32 dB
5-1000*	16	17	18
1001-1218	16	16	16

*The combined row covers 5-47, 48-450, 451-750 and 751-1000 MHz.

Group ranges do not add orderable tap values; use the model selection on page 5. Additional family specifications: SMD construction; hum modulation >70 dB at 12 A over 5-1218 MHz; SCTE IPS-SP-400 F-port reference; 1 kV withstand per F-port.

5-1218 MHz / A / B / C

Indoor Splitter Housing Families

A, B and C housing options cover compact two-way distribution through eight-way configurations.

Two and three output models

Series	2-way	3-way unbalanced	3-way balanced
A	A-102S	A-103S-U	A-103S-B
B	B-102S	B-103S-U	B-103S-B
C	C-102S / C-122S-1218	C-103S-U / C-123S-1218	C-103S-B

Four, six and eight output models

Series	4-way	6-way	8-way
A	A-104S	A-106S	A-108S
B	B-104S	-	-
C	C-104S / C-124S-1218	C-126S-1218	C-128S-1218

A dash means no configuration is listed in this matrix. Paired references in the C row identify the listed legacy/current reference pair; use the exact 1218 reference for the page 9 limits.

Attribute	Family specification
RF	5-1218 MHz / 75 Ω
Interfaces	F female
Housing	Die-cast zinc; nickel or tin plating by family
Selection	Port direction, mounting space, output count and branch loss

Balanced or unbalanced

A balanced 3-way uses equal nominal division among outputs. An unbalanced 3-way provides lower- and higher-loss branches. Housing similarity does not transfer the C-series numerical limits to another family.

5-1218 MHz / DS / HS / H / 03

Additional Indoor Splitter Formats

Alternative housing formats and higher output counts for installation layouts with different space and cable-routing needs.

Series	2	3 unbalanced	3 balanced	4
DS	DS-102S	DS-103S-U	DS-103S-B	DS-104S
HS	HS-102S	HS-103S-U	HS-103S-B	HS-104S
H	H-102S	H-103S-U	H-103S-B	H-104S
03	03-102S	03-103S-U	03-103S-B	03-104S

Higher output counts in the 03 family

Outputs	Reference
6	03-106S
8	03-108S
10	03-1010S
12	03-1012S
14	03-1014S
16	03-1016S

Common construction

5-1218 MHz; 75-ohm F-female ports; die-cast zinc with nickel or tin plating according to the housing family. Select the mounting and port arrangement for the intended installation.

Specify the electrical platform

The 03 family includes up to 16 outputs. Each housing and output count requires its own matched electrical specification; the C-series values on the next page are not a universal table for all these models.

5-1218 MHz / C SERIES

C Series Electrical Limits

Columns 2 / 3 U / 4 / 6 / 8 correspond to C-122S-1218 / C-123S-1218 / C-124S-1218 / C-126S-1218 / C-128S-1218.

Maximum insertion loss

Frequency MHz	2	3 U	4	6	8
5-47	3.5	3.5 / 7.0	6.9	9.7	10.8
48-450	3.7	3.7 / 7.2	7.2	9.7	10.9
451-750	3.8	3.9 / 7.4	7.4	10.3	11.4
751-1000	4.0	4.0 / 7.9	7.9	11.1	12.2
1001-1218	4.4	4.4 / 8.4	8.4	11.7	13.2

Minimum output isolation

Frequency MHz	2	3 U	4	6	8
5-47	25	25	25	25	25
48-470	25	23	23	25	25
471-860	23	23	23	23	23
861-1000	22	22	22	22	22
1001-1218	20	20	20	20	20

Minimum input and output return loss

Frequency MHz	2	3 U	4	6	8
5-47	20 / 20	19 / 20	19 / 20	19 / 19	19 / 19
48-450	20 / 20	20 / 20	20 / 20	17 / 19	17 / 19
451-750	19 / 19	19 / 19	19 / 19	17 / 18	17 / 18
751-1000	18 / 18	18 / 18	18 / 18	17 / 17	17 / 17
1001-1218	16 / 16	16 / 16	16 / 16	16 / 16	16 / 16

For unbalanced 3-way configurations, paired values identify the low-loss / high-loss arms.

All limits are in dB. Return-loss pairs are input / output. Frequency segments differ between parameters and are preserved as specified.

5-1218 MHz / E-122S / E-123S / E-124S

E Series Surge Withstand Splitters

2-way, unbalanced 3-way and 4-way electrical platform with enhanced F-port surge withstand.

Maximum insertion loss

Frequency MHz	2-way	3-way low / high	4-way
5-400	3.6	3.6 / 7.2	7.2
400-600	3.9	3.9 / 7.6	7.6
600-1002	4.2	4.2 / 8.2	8.2
1002-1218	4.5	4.5 / 8.6	8.6

Minimum output isolation

Frequency MHz	2-way	3-way low / high	4-way
5-10	22	22	22
10-65	30	30	30
65-870	26	26	26
870-1002	23	23	23
1002-1218	20	20	20

Minimum input and output return loss

Frequency MHz	2-way	3-way low / high	4-way
5-1002	18	18	18
1002-1218	16	16	16

For unbalanced 3-way configurations, paired values identify the low-loss / high-loss arms.

Specified construction and test references

6 kV references: E-122S-6KV (2 outputs) and E-124S-6KV (4 outputs). F-female ports; operating temperature -20 to +60 °C. Selected E configurations specify Category A3 ring-wave withstand at the F ports up to 6 kV, with ANSI/SCTE 124 shielding and ANSI/SCTE 149 female-port torque references. Confirm the selected rating and test documentation for operator qualification.

Surge withstand describes the splitter under a defined test. Dedicated solid-state drop-line suppression is provided by the separate DLPS range on page 22.

5-1218 MHz / A / B / C

Indoor Tap Model Selection

One- and multi-port taps for controlled subscriber branching while retaining a continuing through path.

Series	Reference prefix	Tap ports	Nominal values in dB
A	A-101T-	1	6, 8, 10, 12, 15, 20, 24, 30
A	A-102T-	2	8, 10, 12, 15, 20, 24, 30
A	A-103T-	3	10, 12, 15, 20, 24, 30
A	A-108T-	8	15, 20, 24, 30
B	B-101T-	1	6, 8, 10, 12, 15, 20, 24, 30
B	B-102T-	2	8, 10, 12, 15, 20, 24, 30
B	B-103T-	3	10, 12, 15, 20, 24, 30
C	C-101T-	1	6, 8, 10, 12, 15, 20, 24, 30
C	C-102T-	2	8, 10, 12, 15, 20, 24, 30
C	C-103T-	3	10, 12, 15, 20, 24, 30
C	C-104T-	4	10, 12, 15, 20, 24, 30

Complete reference = prefix + nominal value + dB. Example: C-104T-20dB. Each listed value defines a separate configuration.

Construction

Die-cast zinc housing with nickel plating and 75-ohm F-female connectors. Match the through loss, tap tolerance, port-specific return loss and isolation to the selected model and network design.

Choose a tap by its two signal paths

The nominal tap value sets the subscriber branch level. Through loss affects the cable run that continues to downstream devices. They are different parameters and must both be included in the signal budget.

5-1218 MHz / DS / HS / HW / HX

Additional Indoor Tap Formats

Alternative compact housings for one or more controlled subscriber branches.

DS / HS

Series	Reference prefix	Tap ports	Nominal values in dB
DS	DS-101T-	1	6, 8, 10, 12, 15, 20, 24, 30
DS	DS-102T-	2	8, 10, 12, 15, 20, 24, 30
DS	DS-103T-	3	10, 12, 15, 20, 24, 30
HS	HS-101T-	1	6, 8, 10, 12, 15, 20, 24, 30
HS	HS-102T-	2	8, 10, 12, 15, 20, 24, 30
HS	HS-103T-	3	10, 12, 15, 20, 24, 30

HW / HX

Series	Reference prefix	Tap ports	Nominal values in dB
HW	HW-101T-	1	6, 8, 10, 12, 15, 20, 24, 30
HX	HX-101T-	1	6, 8, 10, 12, 15, 20, 24, 30

Complete reference = prefix + nominal value + dB. Example: HW-101T-20dB. Each listed value defines a separate configuration.

Format and electrical selection

DS and HS use nickel-plated die-cast zinc housings with 75-ohm F-female connectors. HW and HX are compact one-way formats with input, output and tap ports. Selected common one-way limits are shown on page 13; obtain the matched specification for other nominal values.

5-1218 MHz / ONE-WAY TAP REFERENCE

One Way Tap Electrical Limits

Selected 6, 12, 20 and 24 dB nominal configurations. These columns apply only to the stated values; do not interpolate other tap ratings.

Tap loss tolerance around nominal

Frequency MHz	6 dB	12 dB	20 dB	24 dB
5-1000*	+/-1.5	+/-1.5	+/-1.5	+/-1.5
1001-1218	+/-2.0	+/-2.0	+/-2.0	+/-2.0

Maximum through loss

Frequency MHz	6 dB	12 dB	20 dB	24 dB
5-47	2.6	1.3	1.0	1.0
48-450	2.8	1.2	0.8	0.8
451-750	3.0	1.8	1.1	1.1
751-1000	3.2	2.3	1.3	1.3
1001-1218	3.4	2.5	1.5	1.5

Minimum tap to output isolation

Frequency MHz	6 dB	12 dB	20 dB	24 dB
1001-1218	18	18	20	20

Minimum return loss: input, output and tap

Frequency MHz	6 dB	12 dB	20 dB	24 dB
1001-1218	16	16	16	16

*The combined row covers 5-47, 48-450, 451-750 and 751-1000 MHz.

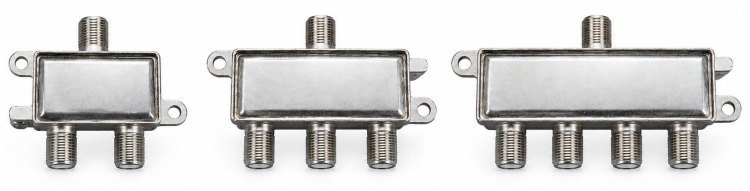
Complete the model selection

Use the HW/HX reference prefix and nominal value from page 12, then confirm the selected housing drawing and electrical specification. The other nominal values remain available for quotation with their own matched performance data.

5-1675 MHz / COMPACT MoCA RANGE

MoCA Two to Four Output Platform

A separate compact platform with balanced and unbalanced 3-way options. Use this page only for the selected platform.



Compact 2-, 3- and 4-output formats

Maximum insertion loss

Frequency MHz	2-way	3 unbalanced	3 balanced	4-way
5-870	<=4.0	<=4.0 / <=8.0	<=6.0	<=8.0
870-1025	<=4.5	<=4.5 / <=8.5	<=7.0	<=8.5
1025-1350	<=5.0	<=5.0 / <=9.5	<=7.5	<=9.5
1350-1500	<=6.0	<=6.0 / <=10.5	<=8.5	<=10.5
1500-1675	<=6.5	<=6.5 / <=11.0	<=9.4	<=11.0

Output isolation

Frequency MHz	2-way	3 unbalanced	3 balanced	4-way
950-1675	<25	<25	<25	<25

Minimum input return loss

Frequency MHz	2-way	3 unbalanced	3 balanced	4-way
5-950	>=16	>=16	>=16	>=16

Minimum output return loss

Frequency MHz	2-way	3 unbalanced	3 balanced	4-way
5-10	>=16	>=16	>=16	>=16
10-950	>=17	>=16	>=16	>=17

For unbalanced 3-way configurations, paired values identify the low-loss / high-loss arms.

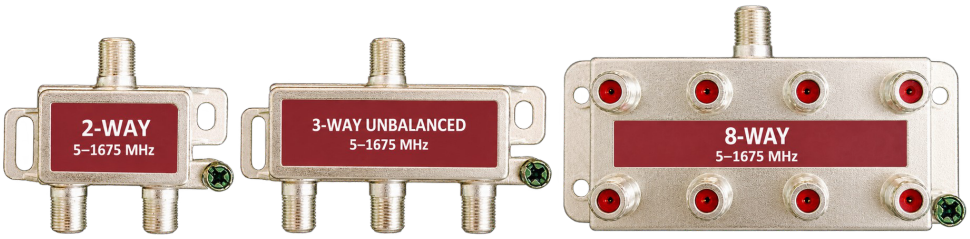
The <25 dB isolation specification is an upper limit over 950-1675 MHz. It is not a minimum-isolation claim. Preserve that requirement when reviewing the intended MoCA network.

75-ohm coaxial distribution. The horizontal/vertical range on page 15 has different documented loss values and must be selected separately.

5-1675 MHz / ESTABLISHED COMPONEXX RANGE

MoCA Horizontal and Vertical Range

Choose the branch count and port layout for the complete in-home coaxial path.



2-way, unbalanced 3-way and 8-way formats

Maximum insertion loss at 1101-1675 MHz

Configuration	Port layout	IL max in dB
2-way	Horizontal or vertical	6.8
3-way unbalanced	Horizontal or vertical	5.5 / 11.0
4-way	Horizontal or vertical	11.0
6-way	Vertical	19.0
8-way	Vertical	19.0

The two 3-way values identify the low-loss and high-loss branches. Balanced 3-way options are also available; request the matching model specification.

Construction and installation

Tin-plated die-cast zinc housings, threaded F-ports, and mounting and grounding provisions. Operating temperature: -40 to +60 °C.

Review the full signal path

Share the equipment frequency plan, port count, required losses and existing part number. Include any point-of-entry filtering and power-passing requirements in the selection.

The limits on this page belong to this range and are not substituted with values from the compact platform on page 14.

10-1800 MHz / LS-2F / LS-3FUB / LS-4F

1800 MHz Splitters

2-way, unbalanced 3-way and 4-way options with electrical limits from 10 to 1800 MHz.

LS 2-way, unbalanced 3-way and 4-way formats

Maximum insertion loss

Frequency MHz	LS-2F	LS-3FUB low / high	LS-4F
10-400	4.0	4.2 / 8.0	8.2
400-860	4.2	4.5 / 8.5	8.8
860-1218	4.6	4.8 / 9.0	9.5
1218-1800	5.2	5.2 / 10.0	10.5

Minimum output isolation

Frequency MHz	LS-2F	LS-3FUB low / high	LS-4F
10-400	22	25 / 25	25
400-860	25	25 / 25	23
860-1218	23	23 / 23	23
1218-1800	20	20 / 20	20

Minimum return loss

Frequency MHz	LS-2F	LS-3FUB low / high	LS-4F
10-400	16	16 / 16	15
400-860	16	18 / 18	16
860-1218	16	16 / 16	16
1218-1800	16	16 / 16	15

For unbalanced 3-way configurations, paired values identify the low-loss / high-loss arms.

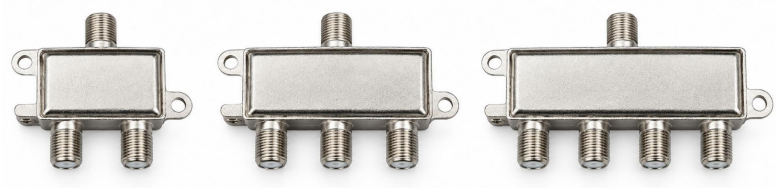
DC behavior and construction

DC block on every port; 75-ohm impedance; nickel- or tin-plated zinc housing; operating temperature -40 to +60 °C. Specified RFI shielding >120 dB. Review the full network requirements for any DOCSIS application; frequency coverage alone is not system certification.

5-2500 MHz / C-252S / C-253S / C-254S

2500 MHz Broadband Splitters

2-, 3- and 4-way configurations with electrical limits in five frequency segments.



C-252S / C-253S / C-254S formats

Maximum insertion loss

Frequency MHz	C-252S	C-253S	C-254S
5-47	4.3	7.3	8.4
48-1000	4.5	7.8	8.7
1001-2000	5.3	10.5	11.2
2001-2300	6.2	11.2	11.7
2301-2500	6.8	11.8	12.3

Minimum output isolation

Frequency MHz	C-252S	C-253S	C-254S
5-47	18	19	19
48-1000	20	20	20
1001-2000	20	20	20
2001-2300	19	19	19
2301-2500	19	19	19

Minimum return loss

Frequency MHz	C-252S	C-253S	C-254S
5-47	9	9	9
48-1000	10	10	10
1001-2000	10	10	10
2001-2300	9	9	9
2301-2500	9	9	9

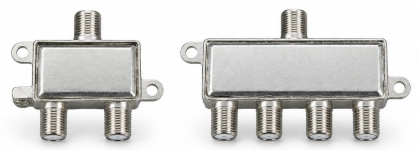
All values in dB. Insertion and through loss are maxima; return loss and isolation are minima unless a different inequality is shown.

Specify the required operating spectrum and loss budget. A higher upper-frequency rating does not automatically meet a different family's return-loss or isolation requirements.

UP TO 3200 MHz / WIDEBAND SPLITTERS

Wideband Splitters | 2, 3 and 4 Outputs

Model-specific frequency segments for loss, isolation and return-loss review.



Representative 2- and 3-output housings; 4-output version not pictured

2 output configuration

Frequency MHz	IL max dB	Isolation min dB	Return loss min dB
10-60	4.0	14	11
70-770	4.0	20	11
770-1336	5.0	15	9.5
1336-2150	6.0	15	9.5
2150-2610	6.5	15	9.5
2610-3224	7.5	15	7.5

3 output configuration

Frequency MHz	IL max dB	Isolation min dB	Return loss min dB
10-60	6.0	15	11
70-770	6.0	20	11
770-1336	7.5	15	9.5
1336-2150	10.0	15	9.5
2150-2610	10.0	15	9.5
2610-3224	12.0	15	7.5

4 output configuration

Frequency MHz	IL max dB	Isolation min dB	Return loss min dB
10-60	8.0	15	11
70-770	8.0	20	11
770-1336	9.0	15	9.5
1336-2150	11.0	15	9.5
2150-2610	11.0	15	9.5
2610-3224	13.5	15	7.5

DC passing is provided on one designated port. Select the port and verify its voltage/current rating for the application.

Frequency segments are reproduced individually through 3224 MHz. No limit is stated here for the gaps between segments, including 60-70 MHz, or below 10 MHz. Confirm the required continuous band when selecting the model.

UP TO 3200 MHz / WIDEBAND SPLITTERS

Wideband Splitters | 6 and 8 Outputs

Model-specific frequency segments for loss, isolation and return-loss review.

6 output configuration

Frequency MHz	IL max dB	Isolation min dB	Return loss min dB
10-60	10.5	15	11
70-770	10.0	20	11
770-1336	12.0	15	9.5
1336-2150	15.0	15	9.5
2150-2610	16.5	15	9.5
2610-3224	18.0	15	7.5

8 output configuration

Frequency MHz	IL max dB	Isolation min dB	Return loss min dB
10-60	12.0	15	11
70-770	12.0	20	11
770-1336	14.0	15	9.5
1336-2150	17.0	15	9.5
2150-2610	18.5	15	9.5
2610-3224	19.5	15	7.5

DC passing is provided on one designated port. Select the port and verify its voltage/current rating for the application.

Frequency segments are reproduced individually through 3224 MHz. No limit is stated here for the gaps between segments, including 60-70 MHz, or below 10 MHz. Confirm the required continuous band when selecting the model.

UP TO 3200 MHz / NOMINAL 12 dB TAPS

Wideband Tap Electrical Limits

1-, 2- and 4-port tap configurations. The 12 dB designation is nominal; actual maximum tap loss varies with frequency.

Tap ports	Frequency MHz	Through max dB	Tap loss max dB	Out-tap iso min	Tap-tap iso min	RL min dB
1	10-60	1.5	12.0	18	-	11
1	70-770	1.5	12.0	20	-	11
1	770-1336	2.0	12.0	18	-	9.5
1	1336-2150	4.0	15.0	18	-	9.5
1	2150-2610	4.5	15.5	18	-	9.5
1	2610-3224	5.0	16.5	18	-	7.5
2	10-60	2.5	12.0	18	18	11
2	70-770	2.5	12.0	20	20	11
2	770-1336	3.5	14.0	18	18	9.5
2	1336-2150	5.0	15.0	18	18	9.5
2	2150-2610	6.5	15.5	18	18	9.5
2	2610-3224	7.0	16.5	18	16	7.5
4	10-60	4.5	12.0	18	18	11
4	70-770	4.5	12.0	20	20	11
4	770-1336	5.5	14.0	18	17	9.5
4	1336-2150	6.5	17.0	18	15	9.5
4	2150-2610	7.0	17.5	18	15	9.5
4	2610-3224	8.0	19.0	18	15	7.5

Isolation values are in dB. RL = return loss. A dash means tap-to-tap isolation is not applicable to the single-tap configuration.

Input-to-output power passing: AC 30 V / 1 A or DC 15 V / 0.8 A. Match the selected installation to the stated path and limits.

Frequency segments are reproduced individually through 3224 MHz. No limit is stated here for the gaps between segments, including 60-70 MHz, or below 10 MHz. Confirm the required continuous band when selecting the model.

ESTABLISHED CX-SP AND CX-DC RANGE / 5-1000 MHz

1 GHz Splitters and Couplers

Keep existing part numbers and documented performance clear when planning replacements or repeat orders.

CX-SP splitters

Model	IL max dB	RL in min dB	RL out min dB	Isolation min dB
CX-SP-2WH-1G	4.0	21	21	22
CX-SP-3WH-1G	3.9 / 7.8	21	22	27
CX-SP-3WBH-1G	6.7	20	22	23
CX-SP-4WH-1G	7.9	20	21	24
CX-SP-2WV-1G	4.2	20	20	23
CX-SP-3WV-1G	4.3 / 8.3	20	20	23
CX-SP-3WBV-1G	6.9	20	20	23
CX-SP-4WV-1G	8.2	20	20	23
CX-SP-6WV-1G	10.5	20	20	23
CX-SP-8WV-1G	12.5	20	20	23

All limits in this table apply to 870-1000 MHz only. H / V denote horizontal / vertical layouts; 3WB is balanced; 3W is unbalanced.

CX-DC one-way directional couplers

Model	Nominal tap dB	Through IL max dB	Input RL min dB
CX-DC-1W-6dB	6	3.2	20
CX-DC-1W-9dB	9	2.2	20
CX-DC-1W-12dB	12	1.5	20
CX-DC-1W-16dB	16	1.3	18

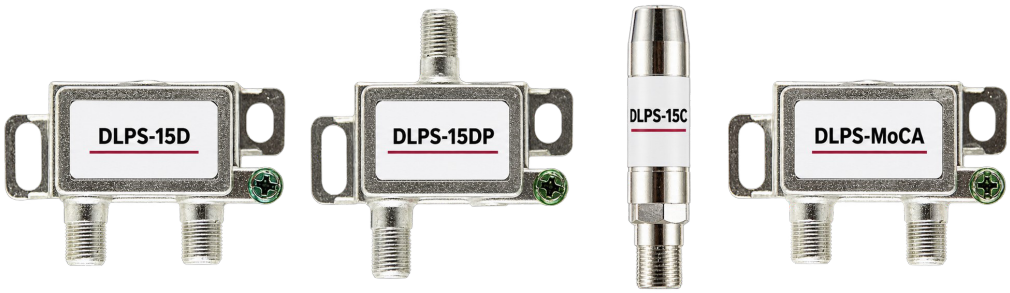
Through insertion loss and return loss apply to 870-1000 MHz. Nominal tap values are not coupling tolerances. IL = insertion loss; RL = return loss; isolation is output to output.

Select the tap value for the branch, then allow for through loss in the continuing cable run. These 1 GHz models remain distinct from the 1218 MHz families.

DLPS / SOLID-STATE COAXIAL PROTECTION

Coaxial Surge Protection

Choose the protection function and installation format to suit the subscriber drop and grounding arrangement.



DLPS coaxial surge-protection formats

DLPS solid-state surge suppression

Model	Installation format	Application
DLPS-15D	Two F-ports on one side	Mounted drop-line protection
DLPS-15DP	F-ports on opposite sides	Alternate cable routing; same circuitry as DLPS-15D
DLPS-15C	Inline body	Connection to an existing ground block
DLPS-MoCA	Protection with integrated filter	Drop protection and MoCA point-of-entry filtering

Selection and recurring supply

ComponexX manufactures the DLPS range. Discuss passband, power passing, grounding, installation layout, private labeling and packaging for the selected model. For integrated MoCA filtering, match the passband and rejection band to the operator channel plan.

The E-series splitter withstand specification on page 10 is separate from DLPS suppression performance. Request the selected DLPS model ratings for the installation.

SELECTION AND SUPPLY

Discuss Your Network Requirement

Send an existing part number, a drawing, a specification or the problem you need to solve. A fully defined project is not required to start a conversation.

Include what you know

Selection input	Useful details
Network	Operating band, return path, network type and acceptance requirements
Signal path	Outputs, nominal tap value, insertion/through loss and return-loss budget
Installation	Indoor/outdoor, housing dimensions, interfaces, mounting and cable routing
Power and protection	DC/AC path, voltage, current, frequency, grounding and surge-test requirement
Supply	Quantity, delivery location, labeling, packaging and recurring demand

Personal support across the product range

We help review the configuration, clarify the specification and organize a supply program around the requirement. These families are part of a broader ComponexX portfolio; ask about related products or configurations not shown here.

Discuss a requirement

sales@componexx.com | +1 813 336 3260

componexx.com/en/contact