

ARRIS SSP Series STARLINE System Passives

SSP-*Q, SSP-PIQ, SSP-PIQ/SP

1.2 GHz Directional Couplers, Splitters, Power Inserters

FEATURES

- Support DOCSIS® 3.1 expanded bandwidth up to 1218 MHz
- Support existing install base with backward compatible faceplates
- Superior flexibility in installation with rotatable faceplate and swivel center seizure mechanism
- Easily configured to enable or block AC power as needed in the network
- Protect valuable network equipment investment with optional heavy surge suppression in Power Inserter



PRODUCT OVERVIEW

The ARRIS STARLINE System Passives SSP-Q are available in configurations including directional couplers, balanced and unbalanced splitters and power inserters. These AC power-passing, two-way devices operate within an RF passband of 1.2 GHz and are enclosed in die-cast 360 aluminum alloy housings that are equipped for strand and pedestal mounting. The SSP-Q series employs a swivel center conductor seizure mechanism and a rotatable faceplate to ensure that users can configure the units in a variety of input/output and RF/AC combinations. These features provide users flexible installation options and reduce the need for cable loops. The SSP-Q series is also equipped with shorting bars which can be removed for power blocking or replaced with fuses as needed.

SSP-*Q Series System Passives 5-1218 MHz

SPECIFICATIONS INSERTION LOSS (dB Maximum)							
Insertion Loss (dB)	5–150 MHz	151–450 MHz	451–600 MHz	601–750 MHz	751–850 MHz	851–1000 MHz	1001–1218 MHz
SSP-PIQ and SSP-PIQ/SP	0.6	0.6	0.7	0.8	0.9	1.1	1.6
SSP-3Q	4.4	4.4	4.6	5.0	5.2	5.5	6.3
SSP-7Q	Output	2.7	2.7	3.0	3.3	3.6	4.2
	Tap Loss	8.0	8.0	8.2	8.5	8.7	9.7
SSP-9Q	Output	1.8	2.0	2.3	2.7	3.0	3.6
	Tap Loss	9.9	9.7	9.9	10.1	10.3	11.2
SSP-12Q	Output	1.5	1.7	2.0	2.2	2.4	3.0
	Tap Loss	12.8	12.5	12.5	12.8	13.2	14.2
SSP-16Q	Output	1.3	1.5	1.7	1.9	2.2	2.8
	Tap Loss	16.8	16.5	16.5	16.7	16.9	17.7
SSP-3-636Q	J1-J2	7.9	8.2	8.5	9.0	9.6	11.0
	J1-J3	7.9	8.2	8.5	9.0	9.6	11.0
	J1-J4	4.6	4.5	4.7	4.9	5.3	6.3

SPECIFICATIONS ISOLATION (dB Minimum)						
Isolation (dB)	5–10 MHz	11–600 MHz	601–750 MHz	751–850 MHz	851–1000 MHz	1001–1218 MHz
SSP-PIQ and SSP-PIQ/SP	60	70	65	60	60	57
SSP-3Q	15	20	20	20	20	20
SSP-7Q	15	20	20	20	20	20
SSP-9Q	15	20	20	20	20	20
SSP-12Q	15	20	20	20	20	20
SSP-16Q	15	24	24	22	20	20
SSP-3-636Q	15	20	20	20	20	20

SPECIFICATIONS RETURN LOSS (dB Minimum)							
Return Loss (dB)	5-50 MHz	51-150 MHz	151-450 MHz	451-750 MHz	751-850 MHz	851-1000 MHz	1001–1218 MHz
SSP-PIQ	15	18	18	18	16	16	16
SSP-PIQ/SP	15	18	18	18	16	16	16
SSP-3Q	15	17	17	17	16	16	16
SSP-7Q	15	16	16	18	16	16	16
SSP-9Q	15	16	16	18	16	16	16
SSP-12Q	15	16	17	18	16	16	16
SSP-16Q	15	17	18	18	16	16	16
SSP-3-636Q	15	17	17	17	16	16	16

SPECIFICATIONS SSP-*Q 15 AMPERE SYSTEM PASSIVES

Current Handling (Splitters and Directional Couplers)	15 amperes maximum all ports
Current Handling (Power Inserter)	
AC Ports	20 amperes maximum
RF Ports	15 amperes maximum
SSP-PIQ/SP Surge Protection	
Surge Current Rating	3000 A, 8x20 μ S
Minimum Firing Voltage	180 V
Hum Modulation	5–10 MHz: 60 dB minimum, all models except PI and PI/SP
	5–10 MHz: 50 dB minimum, PI and PI/SP
	11–750 MHz: 60 dB minimum
	751–1000 MHz: 53 dB minimum
	1001–1218 MHz: 50 dB minimum
RFI	100 dB minimum
Flatness	\pm 0.4 dB maximum on THRU port (versus cable) except SSP-3Q and SSP-3-636Q
	\pm 0.5 dB maximum SSP-3Q and SSP-3-636Q thru ports (versus cable)
	\pm 0.8 dB maximum on COUPLED port (versus cable)
Dimensions	5.53 x 5.53 x 2.50 inches (14.0 x 14.0 x 6.35 cm)
Weight	1.67 lbs. (0.76 kg)

PASSIVE COLOR CODES

Model	Background	Lettering
SSP-PIQ	Purple	White
SSP-3Q	White	Black
SSP-7Q	Red	Black
SSP-9Q	Light Blue	Black
SSP-12Q	Black	White
SSP-16Q	Yellow	White
SSP-3-636Q	Green	White

RELATED PRODUCTS

FFT Full Feature Taps	Optical Patch Cords
FFE Feederline Equalizers	Optical Passives
CHP Chassis	Installation Services

Note: Specifications are subject to change without notice.

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