

- **Compatible with Scientific Atlanta SAS series splitters**
- **Excellent RF and hum modulation performance**
- **Designed for extreme environmental conditions**



Overview

OSSX outdoor splitters are compatible with the Scientific Atlanta SAS series of outdoor splitters. The OSSX series includes 2-way, 3-way balanced and 3-way unbalanced splitters. Providing surge protection on all ports, and excellent RF and hum modulation performance, the splitters feature 5/8"-24 NEF-female ports for in and output cable connection on the housing.

The splitters may be strand mounted through the clamp at the back of the housing or surface mounted with an optional bracket. Tested under extreme environmental conditions, the splitters are designed to operate near salt water, along busy highways and in very hot conditions.

OSSX splitters device and performance specifications

2-way / 3-way / 3-way BAL

Parameter			OSSX-02	OSSX-03	OSSX-33	Notes
			Typ.	Typ.	Typ.	
Insertion loss In-Out (dB)	Out 1	10-65 MHz	3.8	6.0	3.9	1
		65-300 MHz	4.0	6.0	4.0	1
		300-550 MHz	4.0	6.0	4.0	1
		550-750 MHz	4.0	6.0	4.0	1
		750-862 MHz	4.0	6.5	4.0	1
		862-1000 MHz	4.3	7.5	4.3	1
		1000-1218 MHz	4.5	8.2	4.5	1
	Out 2	10-65 MHz	3.8	6.0	7.2	1
		65-300 MHz	4.0	6.0	7.5	1
		300-550 MHz	4.0	6.0	7.5	1
		550-750 MHz	4.0	6.0	7.5	1
		750-862 MHz	4.0	6.5	7.5	1
		862-1000 MHz	4.3	7.5	8.0	1
		1000-1218 MHz	4.5	8.2	8.5	1
	Out 3	10-65 MHz	N/A	6.0	7.2	1
		65-300 MHz		6.0	7.5	1
		300-550 MHz		6.0	7.5	1
		550-750 MHz		6.0	7.5	1
		750-862 MHz		6.5	7.5	1
		862-1000 MHz		7.5	8.0	1
		1000-1218 MHz		8.2	8.5	1
Return loss All ports (dB)		10-47 MHz	20.0	20.0	20.0	
		47-950 MHz	20.0	20.0	20.0	
		950-1218 MHz	18.0	12.0	12.0	
Isolation Port to port (dB)		5-65 MHz	28.0	26.0	28.0	
		65-860 MHz	26.0	25.0	25.0	
		860-1218 MHz	24.0	23.0	24.0	
Screening efficiency (dB)		5-300 MHz	>95			2
		300-470 MHz	>90			2
		470-950 MHz	>85			2
		950-1000 MHz	>85			2
Shielding effectiveness (dBi)		30-1000 MHz	≥95			3
		1000-1218 MHz	≥85			3
Power passing (amps AC/DC)			Typ.	Max.		
			10	15		4
Fuse rating (amps AC/DC)			10	15		
			Min.			
Hum modulation All ports (dB)		10-860 MHz	≥70			5
		860-1218 MHz	≥70			5

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2-way / 3-way / 3-way BAL

Parameter		OSSX-02	OSSX-03	OSSX-33	Notes
Surge Class conformance All ports		2 KV Combination Wave 2 Ω 1.2/50 μ s (Combination Wave C3)			6
Material	Housing	Aluminium			
Impedance		75 Ω			
Equipment approval		CE			

Notes

1	Additional 0.5 dB insertion loss tolerance when operated above +30°C (+86°F).
2	Tested according to EN 50083-2 2006.
3	Tested according to SCTE IPS-TP-403.
4	Range between 60-90 VAC/VDC.
5	At 12 amp power passing.
6	Tested according to IEC 61000-4-5 2005.
Additional loss included for Ingress Safe circuit.	
Measurements taken at room temperature.	

Mechanical and environmental specifications

Parameter		OSSX-02 / OSSX-03 / OSSX-33
Connectors	Input and output	KS-female (5/8"-24 NEF)
Water immersion (IP08)	Tighten torque on connectors	2.26 Nm (<20 in-lb)
	Water head	2 m (6.56 ft)
	Duration	500 hrs
	Observation: no water leak	No electrical degradation after dry
Temperature cycling with humidity (EN 60068-2-30:2005)	Temperature	+4°C to +60°C (+39.2°F to +140°F)
	Extreme temperature duration	3 hrs
	Transient	3 hrs
	Humidity	95% RH
	Number of cycles	20
	Observation: no water leakage	No electrical degradation after dry
High temperature cycling (EN 60068-2-2:2007)	Temperature	+60°C (+140°F)
	Duration	48 hrs
	Observation: no crack or damage	No electrical degradation after dry
Drop test (EN 60068-2-32:1993, IEC 68-2-32:1975)	75 cm (29.5") high onto concrete floor or metal plate surface	Corner, edge and port
	Number of drop for each impact point	1
	Observation: no crack on metal	No electrical performance degradation
Salt fog (MSTM-B-117)	Tighten torque on connectors	2.26 Nm (<20 in-lb)
	Temperature	+35°C (+95°F)
	Salt percentage and acidity	5% and pH7
	Duration	672 hrs (28 days)
	Number of cycles	Continues
	Observation: no electrical performance degradation	No metal corrosion or salt incursion

Mechanical and environmental specifications

Parameter		OSSX-02 / OSSX-03 / OSSX-33
WEEE (2002/96/EC) RoHS (2002/95/EC)	Complete product	Marked with wheelie bin logo Complies to RoHS
Operating temperature		-40°C to +60°C (-40°F to +140°F)
Dimensions (H x W x D)		4.4"H x 5.5"W x 2.8"D (11.2H x 14.0W x 7.2D cm)

Order information

Item code	Model code	Description
19007614	OSSX-02	OUTDOOR SPLITTER SA 2-WAY 1.2 GHz
19007615	OSSX-03	OUTDOOR SPLITTER SA 3-WAY 1.2 GHz
19007616	OSSX-33	OUTDOOR SPLITTER SA 3-WAY 1.2 GHz UNBAL