OPISX outdoor power inserter

- **Compatible with Scientific Atlanta SAIG power inserters**
- **Excellent RF and hum modulation performance**
- **Designed for extreme environmental conditions**

Overview

The OPISX outdoor power inserter is compatible with the Scientific Atlanta SAIG power inserter. Providing excellent RF and hum modulation performance, the OPISX features 5/8"-24 NEF-female ports for in and output cable connection on the housing.

The OPISX 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 power inserters are designed to operate near salt water, along busy highways and in very hot conditions.

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OPISX power inserter device and performance specifications

Line power combiner

Parameter			OPISX	Notes
			Typ.	
Insertion loss In-Out (dB)	Out 1	10-65 MHz	1.8	
		65-300 MHz	2.3	
		300-550 MHz	2.5	
		550-750 MHz	2.7	
		750-862 MHz	2.9	
		862-1000 MHz	3.1	
		1000-1218 MHz	3.3	
			Min.	
Return loss All ports (dB)		10-47 MHz	18.0	
		47-950 MHz	18.0	
		950-1218 MHz	10.0	
Screening efficiency (dB)		5-300 MHz	>95	1
		300-470 MHz	>90	1
		470-950 MHz	>85	1
		950-1000 MHz	>85	1
Shielding effectiveness (dBi)		30-1000 MHz	≥95	2
		1000-1218 MHz	≥85	2
Power passing (amps AC/DC)			12	
Fuse rating (amps AC/DC)			15	
Hum modulation All ports (dB)		10-860 MHz	≥70	3
		860-1218 MHz	≥65	3
Surge Class conformance All ports			2 KV Combination Wave 2 Ω 1.2/50 µs (Combination Wave C3)	4
Material		Housing	Aluminum	
Impedance			75 Ω	

Notes

1	Tested according to EN 50083-2 2006.
2	Tested according to SCTE IPS-TP-403.
3	At 10 amp power passing.
4	Tested according to IEC 61000-4-5 2005.

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Mechanical and environmental specifications

Parameter		OPISX
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	**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
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
19007613	OPISX	OUTDOOR POWER INSERTER SA STYLE 1.2 GHz

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10/2025 - EN/V2