OPIRX outdoor power inserter

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

Overview

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

The OPIRX 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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Specifications

		MHz	Line Power Combiner
Insertion loss (dB)	In to Out		Max
	Out 1	10-65	0.8
		65-300	1.1
		300-550	1.2
		550-750	1.3
		750-862	1.3
		862-1006	1.3
		1000-1218	1.4
Return loss (dB, typ)	All ports		Min
		10-47	18.0
		47-950[5]	18.0
		950-1218	10.0
Screening efficiency (dB)[1]		5-300	>95
		300-470	>90
		470-950	>85
		950-1000	>85
Shielding effectiveness (dBi)[2]		30-1000	≥95
		1000-1218	≥85
Power passing (Amps AC/DC)		12	
Fuse rating (Amps AC/DC)		15	
Hum modulation (dB, min)[3]	All ports		Min
		10-860	≥70
		860-1218	≥65
Surge class conformance[4]	All ports	2KV combination wave 2 Ω 1.2/50µs (Combination wave C3)	
Material	Housing	Aluminum	
Impedance (Ohm, typ)		75	

Remarks

1	Tested according to EN 50083-2 2012
2	Tested according to SCTE IPS-TP-403
3	At 10 Amp power passing
4	Tested according to IEC 61000-4-5 2005
5	-1.5dB per Octave

Ordering information

Item Name	Article number	Notes
OPIRX	19009595	Full Unit
OPIRX/F	19009596	Faceplate only

Measurements taken at room temperature

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Mechanical & environmental specifications

Performance parameter		Details
Connectors	Input & Output	KS-female (5/8"-24NEF)
Water Immersion	Tighten torque on connectors	2.26Nm (< 20 In-Lb)
(IP08)	Water Head	2m (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 temp 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	Temperature	+60°C (+140°F)
(EN 60068-2-2:2007)	Duration	48 hrs
	Observation: No crack or damage	No electrical degradation after dry
Drop Test	75cm (29.5 in) high onto concrete floor or metal plate surface	Corner, Edge & Port
(EN 60068-2-32:1993 ,	Number of drop for each impact points	1
IEC 68-2-32:1975)	Observation: No crack on metal	No electrical performance degradation
Salt Fog	Tighten torque on connectors	2.26Nm (< 20 In-Lb)
(MSTM-B-117)	Temperature	+35°C (+95°F)
	Salt percentage & Acidity	5% & 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)	Complete product	Marked with wheelie bin logo
RoHS (2002/95/EC)	Complete product	Complies to RoHS
Temperature	Operating temperature	-40°C to +60°C (-40°F to +140°F)

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