

# ODPIR outdoor power inserter

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



## Overview

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

The ODPIR 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.

## Specifications

		MHz	Line Power Combiner	
			Typ	Max
Insertion loss (dB)	In to Out			
	Out 1	5-65	0.2	0.6
		65-300	0.4	0.8
		300-550	0.6	1.0
		550-750	0.6	1.0
		750-862	0.7	1.1
862-1006	0.7	1.1		
Return loss (dB, typ)	All ports	5-15	26.8	
		15-550	26.1	
		550-1006	25.9	
Screening efficiency (dB) <sup>1</sup>		5-300	>95	
		300-470	>90	
		470-950	>85	
		950-1000	>85	
Shielding effectiveness (dBi) <sup>2</sup>		5-300	Avg 120	
		300-1000	Avg 110	
Power passing (Amps AC/DC)			15	
Fuse rating (Amps AC/DC)			15	
Hum modulation (dB, min) <sup>3</sup>	All ports		-70	
Surge class conformance <sup>4</sup>	All ports		6KV combination wave 2 $\Omega$ 1.2/50 $\mu$ s (Combination wave C3)	
Material	Housing		Aluminum	
Impedance (Ohm, typ)			75	
Dimensions (mm)	L x H x D		140x112x72	
Equipment Approval			CE	

### Remarks

- 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

### Ordering information

Item Name	Article number
ODPIR	10470128

Measurements taken at room temperature

## Mechanical & environmental specifications

Performance parameter		Details
<b>Connectors</b>	Input & Output	KS-female (5/8"-24NEF)
<b>Water Immersion</b> (IP08)	Tighten torque on connectors Water Head Duration Observation: No Water leak	2.26Nm (< 20 In-Lb) 2m (6.56 ft) 500 hrs No electrical degradation after dry
<b>Temperature cycling with humidity</b> (EN 60068-2-30:2005)	Temperature Extreme temp duration Transient Humidity Number of cycles Observation: (no water leakage)	+4°C to +60°C (+39.2°F to +140°F) 3 hrs 3 hrs 95% RH 20 No electrical degradation after dry
<b>High Temperature cycling</b> (EN 60068-2-2:2007)	Temperature Duration Observation: No crack or damage	+60°C (+140°F) 48 hrs No electrical degradation after dry
<b>Drop Test</b> (EN 60068-2-32:1993 , IEC 68-2-32:1975)	75cm (29.5 in) high onto concrete floor or metal plate surface Number of drop for each impact point Observation: No crack on metal	Corner, Edge & Port 1 No electrical performance degradation
<b>Salt Fog</b> (MSTM-B-117)	Tighten torque on connectors Temperature Salt percentage & Acidity Duration Number of cycles Observation: (No electrical performance degradation)	2.26Nm (< 20 In-Lb) +35°C (+95°F) 5% & pH7 1000 hrs Continues No metal corrosion or salt incursion
<b>WEEE (2002/96/EC)</b>	Complete product	Marked with wheelie bin logo
<b>RoHS (2002/95/EC)</b>	Complete product	Complies to RoHS
<b>Temperature</b>	Operating temperature	-40°C to +60°C (-40°F to +140°F)

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