

### OPIX outdoor power inserter

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



### Overview

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

The OPIX 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.

# Line passives (power inserters)

## OPISX outdoor power inserter

### Specifications

|  |           | MHz  | Line Power Combiner |
|--|-----------|--|---------------------|
| Insertion loss (dB)                        | In to Out |  | Typ                 |
|  | Out 1     | 10-65  | 1.8                 |
|  |           | 65-300   | 2.3                 |
|  |           | 300-550  | 2.5                 |
|  |           | 550-750  | 2.7                 |
|  |           | 750-862  | 2.9                 |
|  |           | 862-1006   | 3.1                 |
|  |           | 1000-1218  | 3.3                 |
| Return loss (dB, typ)                      | All ports |  | Min                 |
|  |           | 10-47  | 18.0                |
|  |           | 47-950   | 18.0                |
|  |           | 950-1218   | 10.0                |
| Screening efficiency (dB) <sup>1</sup>     |           | 5-300  | >95                 |
|  |           | 300-470  | >90                 |
|  |           | 470-950  | >85                 |
|  |           | 950-1000   | >85                 |
| Shielding effectiveness (dBi) <sup>2</sup> |           | 30-1000  | ≥95                 |
|  |           | 1000-1218  | ≥85                 |
| Power passing (Amps AC/DC)                 |           |  | 12                  |
| Fuse rating (Amps AC/DC)                   |           |  | 15                  |
| Hum modulation (dB, min) <sup>3</sup>      | All ports |  | Min                 |
|  |           | 10-860   | ≥70                 |
|  |           | 860-1218   | ≥65                 |
| Surge class conformance <sup>4</sup>       | All ports | 2KV combination wave 2 Ω<br>1.2/50µs (Combination wave C3) |                     |
| Material                                   | Housing   | Aluminum   |                     |
| Impedance (Ohm, typ)                       |           | 75   |                     |

#### 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

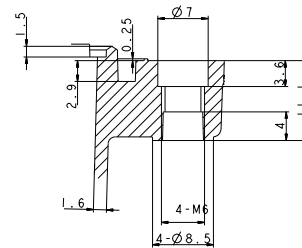
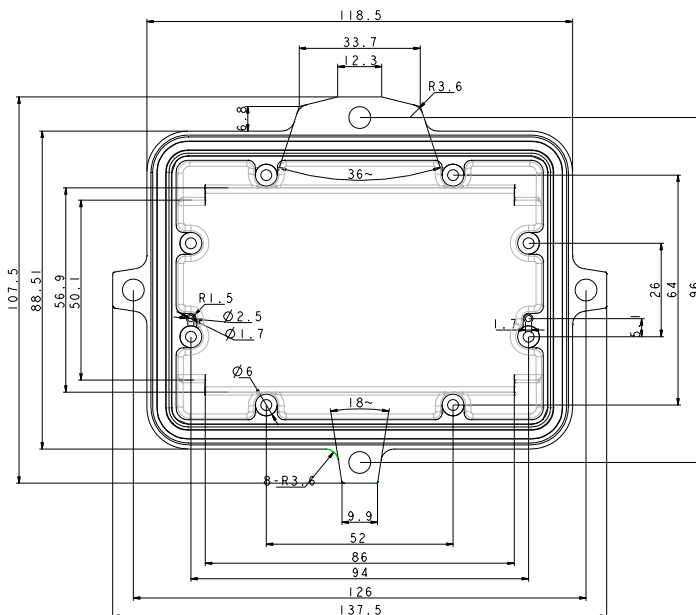
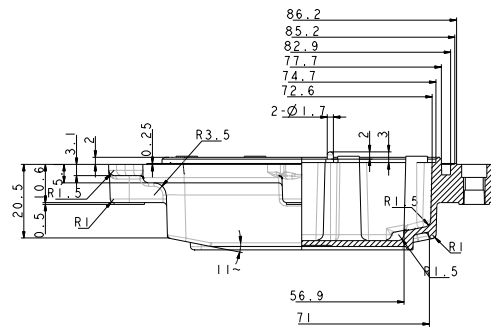
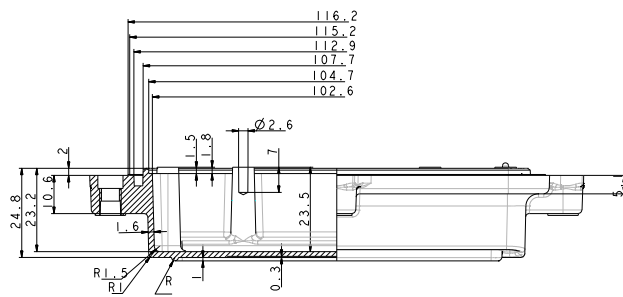
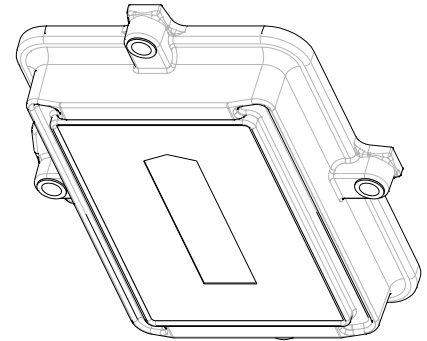
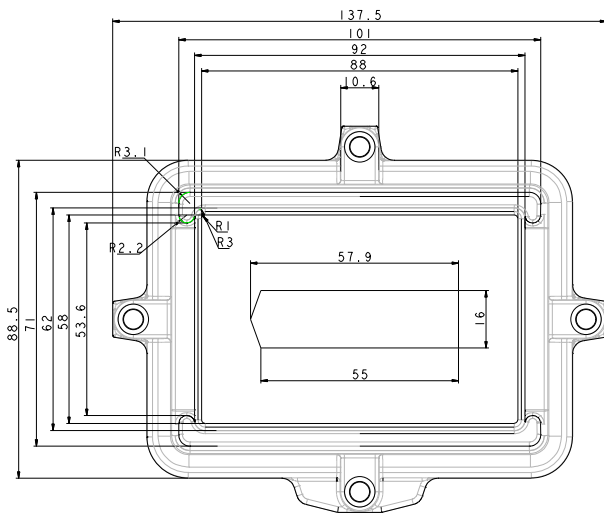
#### Ordering information

| Item Name | Article number |
|-----------|----------------|
| OPISX     | 19007613       |

Measurements taken at room temperature

# Line passives (power inserters) OPISX outdoor power inserter

## Engineering images





## Mechanical & environmental specifications

| Performance parameter  |  | Details  |
|--|--|--|
| <b>Connectors</b>  | Input & Output   | KS-female (5/8" -24NEF)  |
| <b>Water Immersion</b><br>(IP08)                               | Tighten torque on connectors<br>Water Head<br>Duration<br>Observation: No Water leak   | 2.26Nm (< 20 In-Lb)<br>2m (6.56 ft)<br>500 hrs<br>No electrical degradation after dry                                      |
| <b>Temperature cycling with humidity</b>                       | Temperature<br>Extreme temp duration<br>Transient<br>Humidity<br>Number of cycles<br>Observation: (no water leakage)   | +4°C to +60°C (+39.2°F to +140°F)<br>3 hrs<br>3 hrs<br>95% RH<br>20<br>No electrical degradation after dry                 |
| <b>High Temperature cycling</b><br>(EN 60068-2-2:2007)         | Temperature<br>Duration<br>Observation: No crack or damage   | +60°C (+140°F)<br>48 hrs<br>No electrical degradation after dry  |
| <b>Drop Test</b><br>(EN 60068-2-32:1993 ,<br>IEC 68-2-32:1975) | 75cm (29.5 in) high onto concrete floor or metal plate surface<br>Number of drop for each impact points<br>Observation: No crack on metal                        | Corner, Edge & Port<br>1<br>No electrical performance degradation  |
| <b>Salt Fog</b><br>(MSTM-B-117)                                | Tighten torque on connectors<br>Temperature<br>Salt percentage & Acidity<br>Duration<br>Number of cycles<br>Observation: (No electrical performance degradation) | 2.26Nm (< 20 In-Lb)<br>+35°C (+95°F)<br>5% & pH7<br>672 hrs (28 days)<br>Continues<br>No metal corrosion or salt incursion |
| <b>WEEE</b> (2002/96/EC)                                       | Complete product   | Marked with wheelee bin logo   |
| <b>RoHS</b> (2002/95/EC)                                       | Complete product   | Complies to RoHS   |
| <b>Temperature</b>   | Operating temperature  | -40°C to +60°C (-40°F to +140°F)   |

© Copyright 2015 Technetix Group Limited. All rights reserved.

This document is for information only. Features and specifications are subject to change without notice. Technetix, the Technetix logo, Ingress Safe, Modem Safe and certain other marks and logos are trade marks or registered trade marks of Technetix Group Limited in the UK and certain other countries. Other brand and company names are trade marks of their respective owners. Technetix protects its technology and designs by registering patents, trade marks and designs in Europe and certain other countries.