



Outdoor RF passives

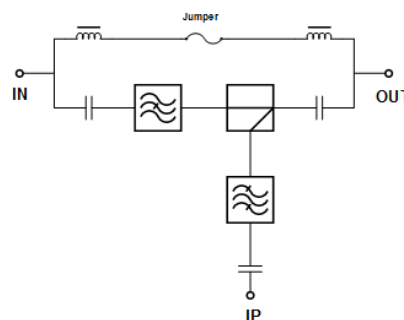
## Bandstop Filter (Injection port/Power Passing)

# 3OBSF-230400-IP

3OBSF-230400-IP is used to add local payload (analog/digital) to CATV branch and distributions networks. The bandstop filter between 230-400 MHz allows injection of payload between 255-365 MHz for the network behind. Power passing is included with the option to interrupt the network behind the filter. Local payload can be inserted via the Injection Port (IP). By integrating the IP port in the same equipment, there is no need to connect another outdoor tap in cascade. This reduces the Insertion Loss and simplifies the installation.

### 3OBSF-230400-IP features

- Fixed Passband 5-230/400-1218 MHz
- Wide 255-365 MHz Stopband with 50 dB rejection
- Good Return Loss in Stopband
- Very good Flatness on IP port
- High feed through current supported
- Connectors on both sides and on top
- Remote power interruptible



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## OUTDOOR RF PASSIVES / 3OBSF-230400-IP

| ELECTRICAL SPECIFICATIONS   |                                 |   |   |
|---|---------------------------------|---|---|
| Frequency range   |                                 | 5...1218 MHz  |   |
| Insertion loss (dB max.)  | IN-OUT                          | 5...100 MHz<br>100...230 MHz<br>230...1006 MHz<br>1006...1218 MHz | 1.5<br>3.0<br>3.0<br>3.5 <sup>(1)</sup>                           |
|   | IP-OUT                          | 255...365 MHz   | 13.0 ± 0.5 <sup>(2)</sup>   |
| Flatness (dB max.)  | IP-OUT                          | ± 0.75 <sup>(3)</sup>   |   |
| Rejection (dB min.)   | IN-OUT                          | 255...365 MHz   | 50.0  |
|   | IP-IN / IP-OUT                  | 5...180 MHz<br>490...1006 MHz<br>1006...1218 MHz                  | 43.0 <sup>(4)</sup><br>43.0 <sup>(4)</sup><br>38.0 <sup>(4)</sup> |
| Return loss (dB min.)   | IN/OUT                          | 5...10 MHz<br>10...1218 MHz                                       | 16.0<br>18.0 <sup>(5)</sup>                                       |
|   | IP                              | 255...365 MHz   | 15.0  |
| GENERAL SPECIFICATIONS  |                                 |   |   |
| Feed through voltage  | 25...65 VAC                     | Maximum feed through current                                      | 12A   |
| Hum modulation  | 70 dB @ 8A <sup>(6)</sup>       | Dimensions L x W x H  | 160 x 140 x 80 mm   |
| Weight  | 1 kg                            | Operating temperature   | -15...+55 °C <sup>(7)</sup>                                       |
| Connectors  | Input/Output<br>Injection point | 5/8" thread<br>F-female   |   |
| EMC compatibility   | IEC60728-2                      | Class of enclosure  | IP67  |
| Safety  | IEC60728-11                     | Surge   | 1 kV, IEC60728-3 <sup>(8)</sup>                                   |
| NOTES   |                                 |   |   |
| <p>(1) Typically 3 dB between 1006 and 1218 MHz.<br/>           (2) Mean value measured over 250-370 MHz range.<br/>           (3) Typically ± 0.5 dB Flatness on IP-OUT path.<br/>           (4) Including the IP 13 dB Insertion loss.<br/>           (5) The limiting curve is defined at 40 MHz -1.5 dB/oct., min. 12 dB at 1218 MHz. Return loss is 15 dB min. in the stopband and 10 dB min. in the 230-250 and 370-400 MHz transitions bands of the bandstop filter, to preserve the flatness IN-OUT.<br/>           (6) At any frequency from 15 to 1218 MHz when the remote current is less than 8A.<br/>           (7) The equipment can work in extreme conditions of -20 to +65°C.<br/>           (8) EN61000-4-2, 1.2/50 µs pulse applied to RF ports. No change in performances or settings contact discharge to enclosure and RF-ports is allowed to see after test.</p> |                                 |   |   |
| ORDERING INFORMATION  |                                 |   |   |
| 3OBSF-230400-IP   |                                 | 5-230/400-1218 MHz Bandstop Filter                                |   |

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3OBSF-230400-IP\_190429\_v01

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