

DPX-053S

700/850 MHz | Single Unit | Outdoor

- Combines 700 and 850 BTS into one feeder
- Low insertion loss
- Designed for low passive intermodulation
- DC/AISG bypass field settable



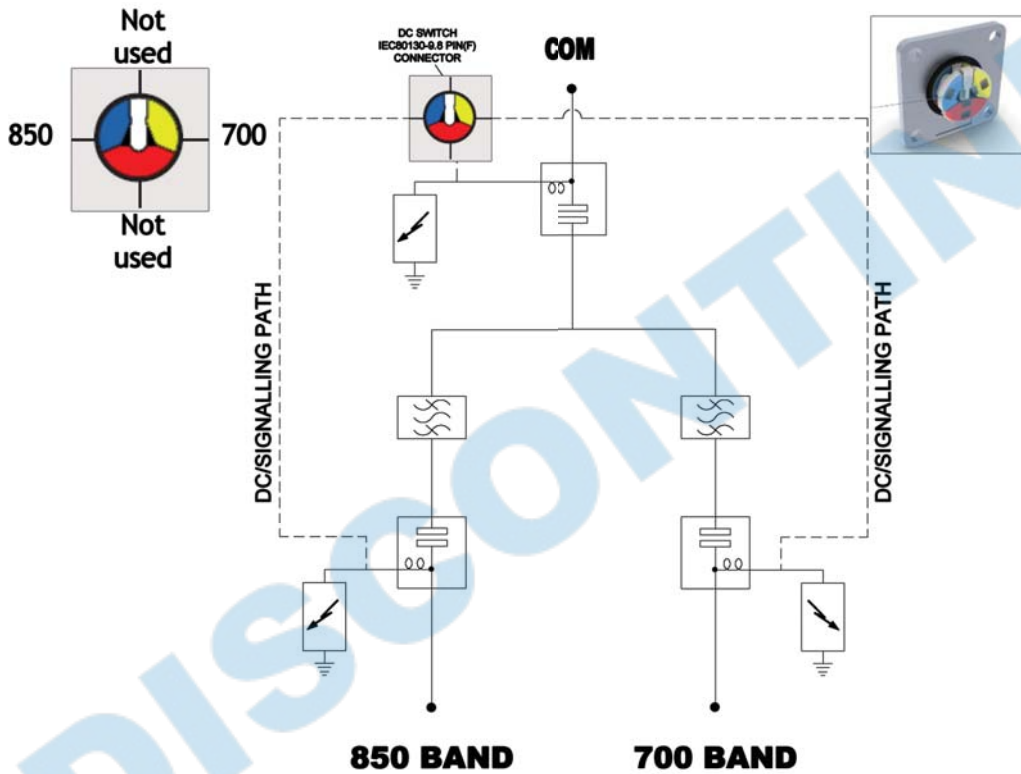
| Electrical Characteristics | | |
|--|---|------------------------|
| 700 Band | | |
| Passband | | 698-798 MHz |
| Insertion Loss (max) | 698-793 MHz | 0.25 dB |
| | 793-798 MHz | 0.35 dB |
| Return Loss | 698-798 MHz | 20 dB (min) |
| | 746-787 MHz | 24 dB (typ) |
| Maximum Input Power | | 300W (avg) / 3kW (PEP) |
| 850 Band | | |
| Passband | | 824-894 MHz |
| Insertion Loss (max) | | 0.25 dB |
| Return Loss (typ) | | 24 dB |
| Maximum Input Power | | 300W (avg) / 3kW (PEP) |
| General | | |
| Impedance | | 50Ω |
| Isolation, Port to Port (min) | 698-793 MHz | 50 dB |
| | 793-798 MHz | 35 dB |
| | 824-894 MHz | 50 dB |
| Phase Linearity (over any 10 MHz) | | < 10° |
| Group Delay Variation (over any 10 MHz) | | < 15ns |
| Intermodulation (2x20W carriers, max all ports) | | -153 dBc |
| DC/AISG Single DC Pass | | |
| A field selectable DC/AISG path is achieved via mechanical links on a IEC60130-9, 8-pin female connector (see mechanical diagram). It is recommended, due to AISG link budget reasons, that a maximum of 2 DC/AISG paths are activated simultaneously without active repeating of the AISG signal. | | |
| Passband | | 0-3 MHz |
| Insertion Loss | Single DC/AISG Bypass | 1 dB (max) |
| | Two DC/AISG Bypass | 4.5 dB (typ) |
| Return Loss | Single DC/AISG Bypass | 12 dB (min) |
| | Two DC/AISG Bypass | 9 dB (typ) |
| Input Voltage Range | | ± 31 V |
| DC Current Rating | Continuous | 2A |
| | Peak | 4A |
| Environmental Characteristics | | |
| Temperature Range | -40° to +65° C | -40° to +149° F |
| Ingress Protection | IP67 | |
| Altitude (max) | 3000 m | 10,000 ft |
| Lightning Protection (RF Ports) | ±5kA max (8/20μs) | |
| MTBF | >1,000,000 hours | |
| Compliance | EMC: EN301 489, ETSI EN 300 019 class 4.1, RoHS | |

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| Mechanical Characteristics | | |
|-------------------------------------|-----------------------------------|--------------------|
| Dimensions (Height x Width x Depth) | 203 x 158 x 81 mm | 8.0 x 6.2 x 3.2 in |
| Weight without Mounting Brackets | 5.8 kg | 12.7 lbs |
| Finish | Painted, light grey (RAL7035) | |
| Connectors | 3 / 7-16 DIN / Female / Long Neck | |
| Mounting Options | | |
| Pole/Wall Mount Brackets | 45-178 mm | 1.8-7.0 in |
| Electrical Block Diagram | | |

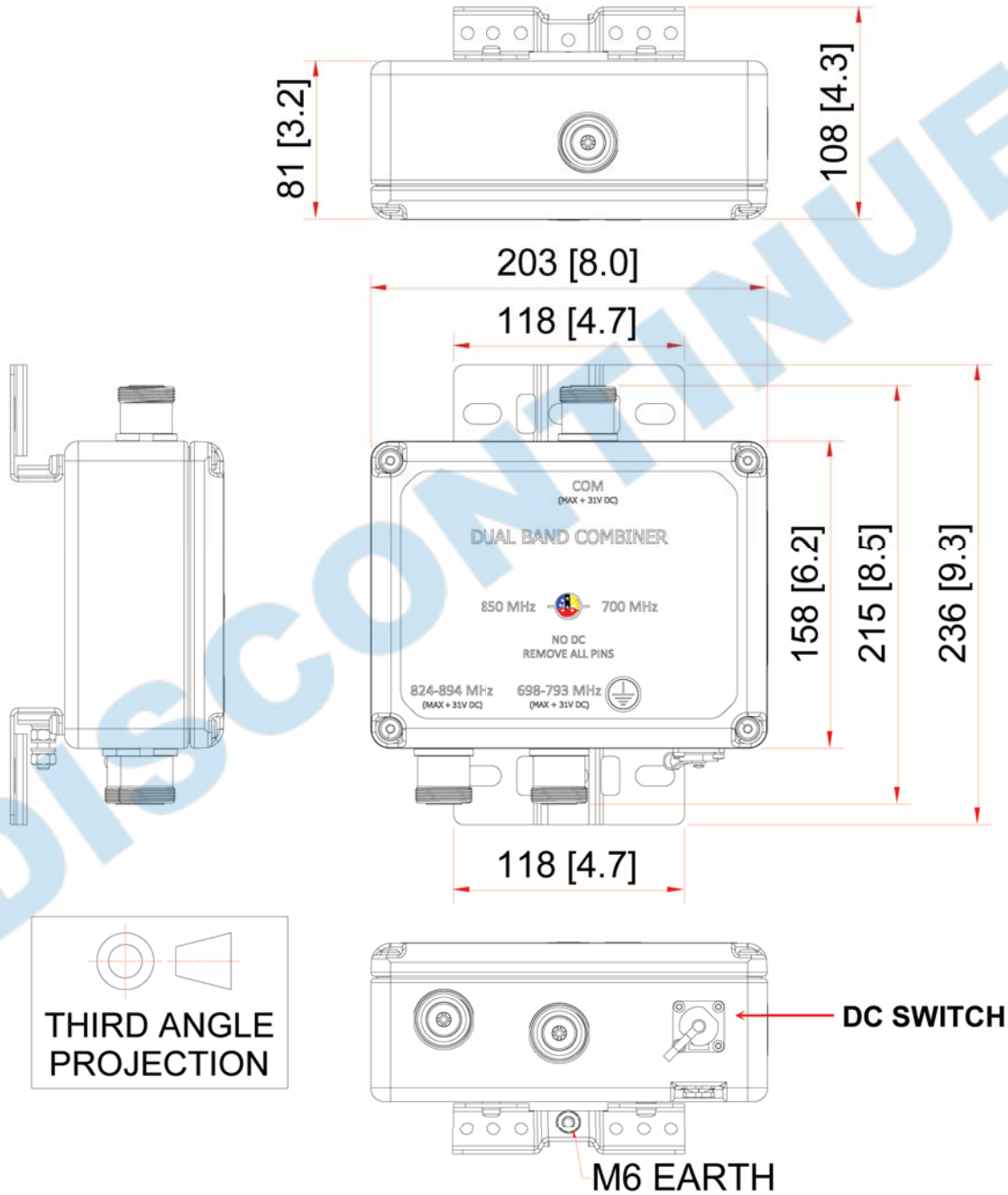


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Mechanical Diagram



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