## DTV3X4 MULTISWITCH

**DIRECTV Approved**

**3X4 Outdoor/Indoor Switch**

### Specifications

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<th>Model Number</th>
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#### Satellite Inputs
- **Number of Inputs**: 2
- **Input Frequency**: 950 to 1450 MHz
- **Input & Output Return Loss**: 10 dB (min)
- **Insertion Loss/Gain**: -2 to + 5 dB
- **Max Input**: -23 dBm per transponder (@ -40 dBc IMD)

16 transponder input; operational at -20 dBm

#### Passive VHF/UHF/Cable/ATSC Input
- **Number of Inputs**: 1
- **Frequency Range**: 54 to 806 MHz
- **Thru Loss**: 12 dB (max)
- **VHF-UHF/Sat Isolation (between filter 3 dB point)**
  - Between 700 MHz and 950 MHz: 45 dB (min)
  - Between 806 MHz and 950 MHz: 35 dB (min)
- **Third order IMD Products (for two-tone, at - 15 dBm output)**: -50 dBc (max)
- **Cross-pol Isolation (same satellite)**: 30 dB (min)
- **Gain Flatness, any 24 MHz band (pk-pk)**: < or = 1.0 dB (max)
- **Worst-case Bias Current to LNB (per Input)**: 220 mA (max)
- **Bias Current to Multi-switch (each channel, from each IRD)**: 30 – 80 mA
- **Short Circuit Protection (work in conjunction with IRD ckt)**: Yes
- **LNB Bias Voltage Drop (thru multi-switch)**: 0.7V DC (max)
- **Typical Polarization Control Voltage at IRD output under full load** (To be used as ref only, not design parameter)
  - LHCP Selection (16 even transponders): 17.75 to 21.0 V
  - RHCP Selection (16 odd transponders): 12.75 to 14.0 V
  - Multi-switch LHCP/RHCP Switching Range: 14.5 -15.5 Vdc
- **Number of Combined Multi-switch Outputs**: 4
- **Connectors Type**: "F" female
- **Weather Caps for Unused F connectors**: 4
- **Case Ground Point**: Yes
- **Operating Environment**: Outdoor & Indoor
- **Operating Temp Range**: -34 C to 60 C
- **Max Body Dimension (W x D x H)**: 3.5”x3.0”x0.6”
- **Master Carton Qty**: 100