

DTV3X4
DIRECTV Approved
3X4 Outdoor/Indoor Switch



Model Number	DTV3X4
Satellite Inputs Number of Inputs Input Frequency Input & Output Return Loss Insertion Loss/Gain Max Input	2 950 to 1450 MHz 10 dB (min) -2 to + 5 dB -23 dBm per transponder (@ -40 dBc IMD) 16 transponder input; operational at -20 dBm
Passive VHF/UHF/Cable/ATSC Input	
Number of Inputs Frequency Range Thru Loss VHF-UHF/Sat Isolation (between filter 3 dB point) Between 700 MHz and 950 MHz Between 806 MHz and 950 MHz Third order IMD Products (for two-tone, at -15 dBm output)	1 54 to 806 MHz 12 dB (max) 45 dB (min) 35 dB (min) -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 (Some IRD needs min 30 mA idle current loading)
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) RHCP Selection (16 odd transponders)	17.75 to 21.0 V 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