

Model 305 Very High Frequency (VHF/UHF) Distribution Matrix

The 305 family of Very High Frequency Switch Matrices is intended for front end distribution of VHF/UHF signals to receivers and converters. The 305 is a Full Fan Out architecture, any input can be routed to any or multiple outputs. The 305 is a modular series, allowing the matrix size to be custom configured. Inputs can be configured from 4 to 24 inputs, in steps of four. Outputs can be configured from 2 to 8 outputs, in steps of two. Non-reflective front end limiters protect the inputs from accidental power levels up to 2 watts.

The unit's front panel display permits local users to view and change routings, as well as checking the health and status of the chassis. A local lockout command inhibits front panel access. All functions and status are also accessible through the remote interfaces. A simple ACSII literal based command set allows quick and easy remote control of the unit.

Electrical

Frequency Range	10 – 1300 MHz
Insertion Loss	0 +/- 1.5 dB
Flatness	+/-1.5 dB
Path On/Off Isolation	50 dB
Maximum Operating Level	+8 dBm
Maximum Level, No Damage	+33 dBm
Inter-modulation Distortion, OIP ²	+35 dBm
Inter-modulation Distortion, OIP ³	+20 dBm
Noise Figure	8 dB
Impedance	50 ohms
Return Loss / VSWR	-14 dB / 1.5:1
Primary Power	115/230VAC, 50/60Hz, 75 watts
Remote Interfaces	RS-574 (DTE) RS-485 (two wire) 10/100BaseT (RJ45)

Mechanical

Chassis Size	3U (5.25")H x 19"W x 20"D
RF Connectors	SMA Female

Environmental

Operating Temperature	0 to +50 C
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Configuration/Ordering Information

305-XX-YY

where **XX** is the number of inputs 04 through 24
and **YY** is the number of outputs 02 through 08.

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