

Model 307 Very High Frequency (VHF/UHF) Distribution Matrix

The 307 family of Very High Frequency Switch Matrices is intended for front end distribution of VHF/UHF signals to receivers and converters. The 307 is a Full Fan Out architecture, any input can be routed to any or multiple outputs. The 307 is a modular series, allowing the matrix size to be custom configured. Inputs can be configured from 2 to 16 inputs, in steps of two. Outputs can be configured from 1 to 16 outputs, in steps of one. 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. The 307 also features redundant power supplies.

Electrical

Frequency Range	10 – 1300 MHz
Insertion Loss	0 +/- 1.5 dB
Flatness	+/-1.0 dB
Path On/Off Isolation	60 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-232/RS-574 (DTE) RS-422/RS-485 10/100BaseT (RJ45)

Mechanical

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

Environmental

Operating Temperature	0 to +50 C
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Configuration/Ordering Information

307-XX-YY

where **XX** is the number of inputs 02 through 16
and **YY** is the number of outputs 01 through 16.

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