

Model 304 High Frequency (HF) Distribution Matrix

The 304 family of High Frequency Switch Matrices are intended for front end distribution of HF signals to receivers and recorders. The 304 is a Full Fan Out architecture, any input can be routed to any or multiple outputs. The 304 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 4 to 16 outputs, in steps of one.

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	1 – 32 MHz (useable up to 45 MHz)
Insertion Loss	0 +/- 1.0 dB
Flatness	+/-0.5 dB
Path On/Off Isolation	50 dB
Maximum Operating Level	+10 dBm
Maximum Level, No Damage	+23 dBm
Inter-modulation Distortion, OIP ²	+70 dBm
Inter-modulation Distortion, OIP ³	+35 dBm
Noise Figure	9 dB
Impedance	50 ohms
Return Loss / VSWR	-14 dB / 1.4:1
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	BNC Female

Environmental

Operating Temperature	0 to +50 C
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Configuration/Ordering Information

304-XX-YY

where **XX** is the number of inputs 02 through 16
and **YY** is the number of outputs 04 through 16.

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