

Model 308 & 309, L-Band Distribution Matrices

The 308 and 309 families of solid-state L-Band Switch Matrices are intended for distribution of down converted Sat Com signals to receivers and modems. Both models use a Full Fan Out architecture, any input can be routed to any or multiple outputs. The model 308 is for 50 ohm installations and the model 309 is for 75 ohm sites. Both models are modular, allowing the matrix size to be custom configured (or serviced) in the field. 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.

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 model 308 and 309 also features redundant "hot swappable" power supplies.

Electrical

Frequency Range	900 – 2150 MHz
Insertion Loss	0 +/- 3.0 dB
Ripple, any 50 MHz segment	+/-0.2 dB
Path Off Isolation	60 dB
Maximum Operating Level	+5 dBm
Maximum Level, No Damage	+17 dBm
Inter-modulation Distortion, OIP ³	+25 dBm
Noise Figure	8 dB
Impedance	50 ohms, model 308 75 ohms, model 309
Return Loss / VSWR	-14 dB / 1.5:1
Primary Power	115/230VAC, 50/60Hz, 85 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

308-XX-YY or **309-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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