



DOUBLE D ELECTRONICS LTD

BNC Coaxial Switches for IF Applications

- * Wide range of configurations
- * d.c. to 200MHz
- * 50Ω and 75Ω options
- * Low loss - mechanical switches
- * Latching relays
- * Retain state with no power
- * 5V, 12V or 24V d.c. control
- * Position tellbacks
- * BNC Connectors



Double D Electronics Ltd can offer a wide range of coaxial switches for IF applications. Most are based on single or multiple transfer switch configurations, although other configurations can be provided on request.

All switches use latching mechanical relays, minimising steady state power requirements and ensuring that the path is maintained in the absence of power. A range of control voltages is available, and all switches provide tellback contacts. All switches are fitted in screened aluminium cases.

The simplest configuration implements a single transfer switch. Other options include a 1 of 4 selector switch and a 1+4 standby chain. These multiple stage switches give enhanced performance, by eliminating inter-switch cables and connectors, as well as reduced cost, when compared with systems using individual transfer switches.

SPECIFICATION

Configuration:	Transfer	Transfer	1+4	1+4	1 of 4	1 of 4
Impedance	50	75	50	75	50	75
Connectors	BNC	BNC	BNC	BNC	BNC	BNC
Control Voltage (v)	5,12,24	5,12,24	5,12,24	5,12,24	5,12,24	5,12,24
Main path loss - 0-100MHz	Typ Max	0.1dB 0.3dB	0.1dB 0.3dB	0.2dB 0.4dB	0.3dB 0.7dB	
Main path loss - 0-200MHz	Typ Max	0.2dB 0.4dB	0.3dB 0.6dB	0.2dB 0.6dB	0.4dB 0.9dB	
Return Loss 0-100MHz	Typ Max	-28dB -23dB	-20dB -16dB	-22dB -19dB	-20dB*	
Return Loss 0-200MHz	Typ Max	-21dB -17dB	-14dB -11dB	-17dB -15dB	-18dB*	

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Configuration:	Transfer	Transfer	1+4	1+4	1 of 4	1 of 4
Size (excluding connectors)	110 x 86.5 x 28.0mm		192 x 90 x 25.5mm			
Fixings (control connector is on opposite face to coaxial connectors)	2 x M3 hole on coax connector face - 95.6mm FC		Via BNC nuts on coax connector face (19mm centres) or 2 x M4 bush on control connector face 171.9mm FC			
Control Connector	9-way D-plug	9-way D-plug	20-way IDC	20-way IDC	20-way IDC	20-way IDC
Part Number	DDS9732-v15	DDS9732-v17	DDS0019-v15	DDS9823-v17		

* Standby through path return loss typically 4dB less than figures stated.

v = Control Voltage

Option Information

Control Voltage is specified by a single digit:

0	5V d.c. common positive
1	12V d.c. common positive
2	24V d.c. common positive

Other Configurations

DDS9728 is similar to DDS9823, but has the control connector on one short side of the unit.

Various switching matrices are available or can be produced to specific requirements - please consult factory with your requirements.