CSB Series Broadband Motorized Coaxial Switches

Features

- Broadband DC to 806 MHz
- 3 or 4 port configurations
- Three port application require only the addition of a shorting cap
- Non-volatile position memory
- VSWR <1.05:1 typical
- Isolation > 55 dB typical
- Geneva drive mechanism provides precise position control
- Available with 115 Volt or 230 Volt AC motors
- 12 or 24 volts DC control voltage
- Mount in any orientation
- May be operated manually

FM, VHF, and UHF Motorized Coaxial Switches

ERI broadband motorized coaxial switches are designed for operation n FM, VHF, and UHF broadcast systems. This new motorized switch is a coplanar design that simplifies interconnecting transmission line requirements and allows for more compact equipment configurations with fewer expensive coaxial elbows. The switches are engineered to provide high capability and long life. A Geneva drive mechanism provides exact 90 degree rotation of the contacts. The switches utilize a unique, flat plane, silver plated, dual-contact is designed to provide high power capability and long life. The switch drive can be either 115 VAC or 230 VAC with control voltages of 12 VDC or 24 VDC. Manual operation is provided via a hex drive Tee Wrench through a hole in the switch case. If power to the drive is interrupted, the control circuit provides nonvolatile memory so that the switch either holds its position or continues its transition upon re-application of AC power.



The standard configuration provided is a four-port coaxial switch, the standard model can be adapted to three port configurations with the addition of a shorting cap. This allows the switch to be used in future configurations requiring 4 ports, by only removing the shorting cap.

Part Numbers for AM, FM, and VHF TV Motorized Coaxial Switches

Part Number	r Description
CS203-112	1-5/8-inch, four (4) port motorized coaxial switch. 115 VAC drive motor voltage, 12 VDC control voltage. EIA flanged connections. Broadband, DC to 806 MHz.
CS203-124	1-5/8-inch, four (4) port motorized coaxial switch. 115 VAC drive motor voltage, 24 VDC control voltage. EIA flanged connections. Broadband, DC to 806 MHz.
CS203-212	1-5/8-inch, four (4) port motorized coaxial switch. 230 VAC drive motor voltage, 12 VDC control voltage. EIA flanged connections. Broadband, DC to 806 MHz.
CS203-224	1-5/8-inch, four (4) port motorized coaxial switch. 230 VAC drive motor voltage, 24 VDC control voltage. EIA flanged connections. Broadband, DC to 806 MHz.
CS300-112	3-1/8-inch, four (4) port motorized coaxial switch. 115 VAC drive motor voltage, 12 VDC control voltage. EIA flanged connections. Broadband, DC to 806 MHz.

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CSB Series Broadband Motorized Coaxial Switches

Part Number	Description
CS300-124	3-1/8-inch, four (4) port motorized coaxial switch. 115 VAC drive motor voltage, 24 VDC control voltage. EIA flanged connections. Broadband, DC to 806 MHz.
CS300-212	3-1/8-inch, four (4) port motorized coaxial switch. 230 VAC drive motor voltage, 12 VDC control voltage. EIA flanged connections. Broadband, DC to 806 MHz.
CS300-224	3-1/8-inch, four (4) port motorized coaxial switch. 230 VAC drive motor voltage, 24 VDC control voltage. EIA flanged connections. Broadband, DC to 806 MHz.
CS400-112	4-1/16-inch, four (4) port motorized coaxial switch. 115 VAC drive motor voltage, 12 VDC control voltage. Flanged connections. Broadband, DC to 806 MHz.
CS400-124	4-1/16-inch, four (4) port motorized coaxial switch. 115 VAC drive motor voltage, 24 VDC control voltage. Flanged connections. Broadband, DC to 806 MHz.
CS400-212	4-1/16-inch, four (4) port motorized coaxial switch. 230 VAC drive motor voltage, 12 VDC control voltage. Flanged connections. Broadband, DC to 806 MHz.
CS400-224	4-1/16-inch, four (4) port motorized coaxial switch. 230 VAC drive motor voltage, 24 VDC control voltage. Flanged connections. Broadband, DC to 806 MHz.

NOTE: Specify AC motor voltage (115 or 230 VAC) and DC control voltage (12 or 24 VDC) at time of order.

CS203 1-5/8-inch Motorized Co	oaxial Switch Specifications	
Model:	CS203	
Size: 1	5/8-inch	
Impedance:	50 Ohms	
Frequency Range:	DC-806 MHz	
Power Rating, Peak:	165 kW	
Power Rating, Average:	140 kW at 1 MHz	
	30 kW at 25 MHz	
	15 kW at 108 MHz	
	9 kW at 250 MHz	
	6 kW at 470 MHz	
	4 kW at 806 MHz	
Weight:	30 lbm 13.6 kg	
Shorting Cap (for 3 port use):	CS008	
VSWR:	1:03:1 or better	
Insertion Loss:	0.06 dB or less	
Isolation:	60 dB or more	
Switching Time:	~ 3 sec	
RF Connectors:	EIA Flanged*	
AC Power Current, 115 VAC:	0.45 A	
AC Power Current, 230 VAC:	0.21 A	
Control Power Current, 12 VDC:	140 mA	
Control Power Current, 24 VDC: * Unflanged available.	70 mA	

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CSB Series Broadband Motorized Coaxial Switches

CS Series Motorized Coaxial Switch Specifications

CS300 3-1/8-inch Motorized Coaxial Switch Specifications

Model:	CS300
Size:	3 1/8-inch
Impedance:	50 Ohms
Frequency Range:	DC-806 MHz
Power Rating, Peak:	300 kW
Power Rating, Average:	300 kW at 1 MHz
	75 kW at 25 MHz
	40 kW at 108 MHz
	30 kW at 250 MHz
	22 kW at 470 MHz
	17 kW at 806 MHz
Weight:	52 lbm 23.6 kg
Shorting Cap (for 3 port use):	CS009
VSWR:	1:05:1 tuned to channel
Insertion Loss:	0.06 dB or less
Isolation:	60 dB or more
Switching Time:	~ 3 sec
RF Connectors:	EIA Flanged*
AC Power Current, 115 VAC:	0.45 A
AC Power Current, 230 VAC:	0.21 A
Control Power Current, 12 VDC:	140 mA
Control Power Current, 24 VDC:	70 mA
* Unflanged available.	

CS400 4-1/16-inch Motorized Coaxial Switch Specifications

Model:
Size:
Impedance:
Frequency Range:
Power Rating, Peak:
Power Rating, Average:

Weight: Shorting Cap (for 3 port use): VSWR: Insertion Loss: Isolation: Switching Time: RF Connectors: AC Power Current, 115 VAC: AC Power Current, 230 VAC: Control Power Current, 12 VDC: Control Power Current, 24 VDC: * Unflanged available. 4 1/16-inch 50 Ohms DC-806 MHz 500 kW 500 kW at 1 MHz 125 kW at 25 MHz 70 kW at 108 MHz 49 kW at 250 MHz 35 kW at 470 MHz 26 kW at 806 MHz 65 lbm | 29.5 kg CS011 1:05:1 or better 0.06 dB or less 60 dB or more ~ 3 sec Flanged * 0.45 A 0.21 A 140 mA 70 mA

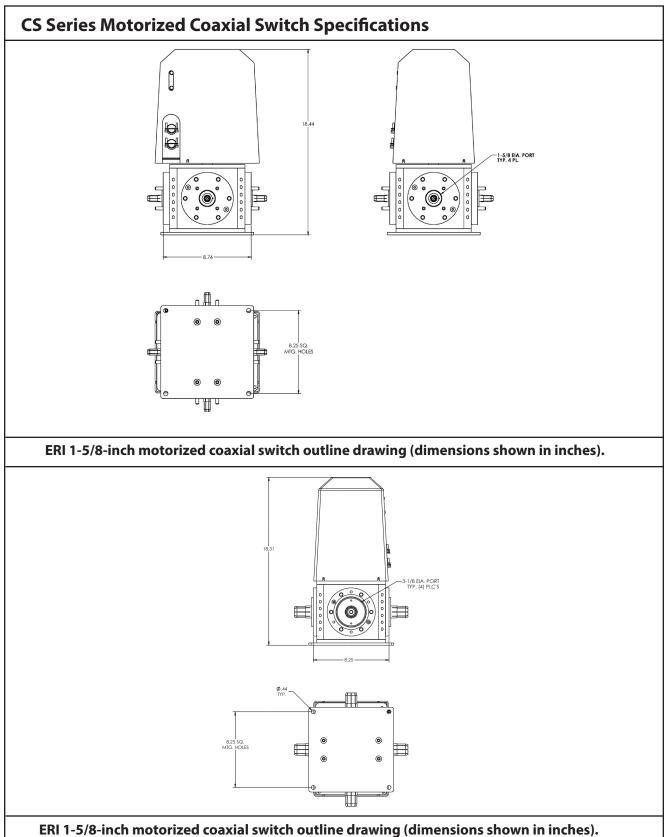
CS400

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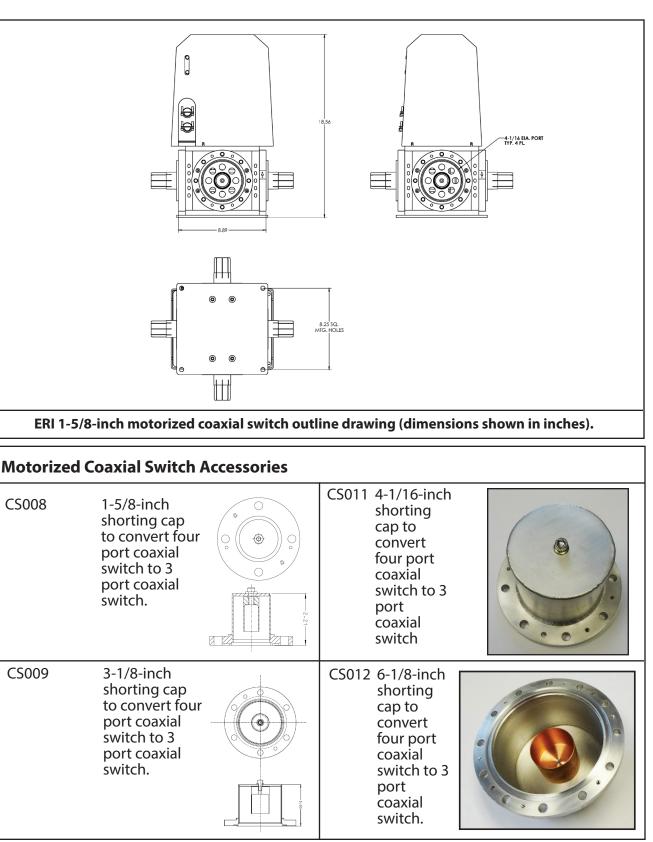
CSB Series Broadband Motorized Coaxial Switches



Ent 1 5/6 men motorized coaxial switch outline drawing (amensions shown in menes).

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Specifications subject to change without notice.

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