

## Multicast Switches



### Product Introduction

Multicast Switch (MCS) series are designed for next generation of CDC-ROADM system based on PLC splitter and MEMS optical switch technology. The product is an integrated module containing twin 8x12 or 8x16 type MCS and electronic control unit inside. The module could implement any optical input can be routed to any of the out ports function. It could be used at key locations in the CDC-ROADM optical network.

### Features

- ADD & DROP in one module
- Low insertion loss
- Low power dissipation
- Optical block

### Applications

- DWDM Networks
- ROADM Systems

### Standards

- Telcordia GR-1221-CORE
- RoHS

### Specifications

Parameter	Unit	Specifications					
		8x12			8x16		
		Min.	Typ.	Max.	Min.	Typ.	Max.
Wavelength	nm	1525		1570	1525		1570
Insert Loss	dB		13.5	14.5		15	16
IL Uniformity	dB			1.2			1.5
Wavelength dependent loss	dB		0.5	0.7		0.5	0.7
Polarization Dependent Loss	dB			0.5			0.5
Polarization mode dispersion	ps			0.5			0.5
Optical Return Loss	dB	40	45		40	45	

Port to Port Isolation	dB	40			40		
Directivity	dB	40			40		
Blocked State Isolation	dB	45			45		
Switching Speed Port to Port	ms			50			50
Max Power Handing (total)	dBm			25			25
Electrical Power Consumption	W			5			5
Operation Temperature	°C	-5~65			-5~65		
Storage Temperature	°C	-40~85			-40~85		
Package	mm	220x140x20.5			220x140x20.5		

### Ordering Information

MCS- □-□-□-□-□-□

Customer Specify: 1: One function module, 2: Twin function module

Package: A: 220x140x35, B: 220x140x20.5

Connector: LC/UPC, LC/APC, MPO, customer specify

Fiber Type: 025: Φ0.25mm, 09: Φ0.9mm

Wavelength: C: 1525~1570 nm

Module type: 812: 8x12, 816: 8x16