



1xN MEMS Optical Switch

- Max SM 1xN configuration is 1x64(Non-Splicing)
- Max MM 1xN configuration is 1x16(Non-Splicing)
- The Cylindrical package has direct analog voltage control of the MEMS mirror
- Proven MEMS durability and reliability
- Qualified to Telcordia GR-1073-CORE and RoHS



Parameters		Value	Unit	Notes
Insertion Loss	Single Mode	1x4/8	$\leq 0.8 @S$	dB @CWL, 23°C Without Connectors @S: 1310 or 1550 or 1625
		1x16	$\leq 1.0 @S$	
		1x24/32	$\leq 1.2 @S$	
		1x48/64	$\leq 1.4 @S$	
	Multi Mode	1x4/8	$\leq 0.6 @S$	@S: 850 or 980 or 1310 or 1550
		1x12	$\leq 0.7 @S$	
		1x16	$\leq 0.8 @S$	
Dimension		$\Phi 5.5 \times 15$	mm	MINI 1x2
		$\Phi 5.5 \times 42$		SM, $N \leq 16$
		$\Phi 6.2 \times 47$		SM, $N \geq 24$ MM, $N \leq 16$

1xN MEMS Optical Switch Module



External PCB



Module (single stage)



Module (double stage)

Parameters		Value	Unit	Notes
OSW Channels	Single stage	1x2/4/8/16/32/64		SM
	Double stage	1x32/64/144/288		
Control Type		TTL UART / TTL Parallel / I ² C		
Switch Time	Single stage	≤5 @1x16 ≤15 @1x64	ms	Support smooth switching
	Double stage	≤35		
Hitless		Double stage support hitless switching		
Dimension	68x30x13 or 75x30x13		mm	Single stage, N≤16(SM)
	140x90x15			Double stage