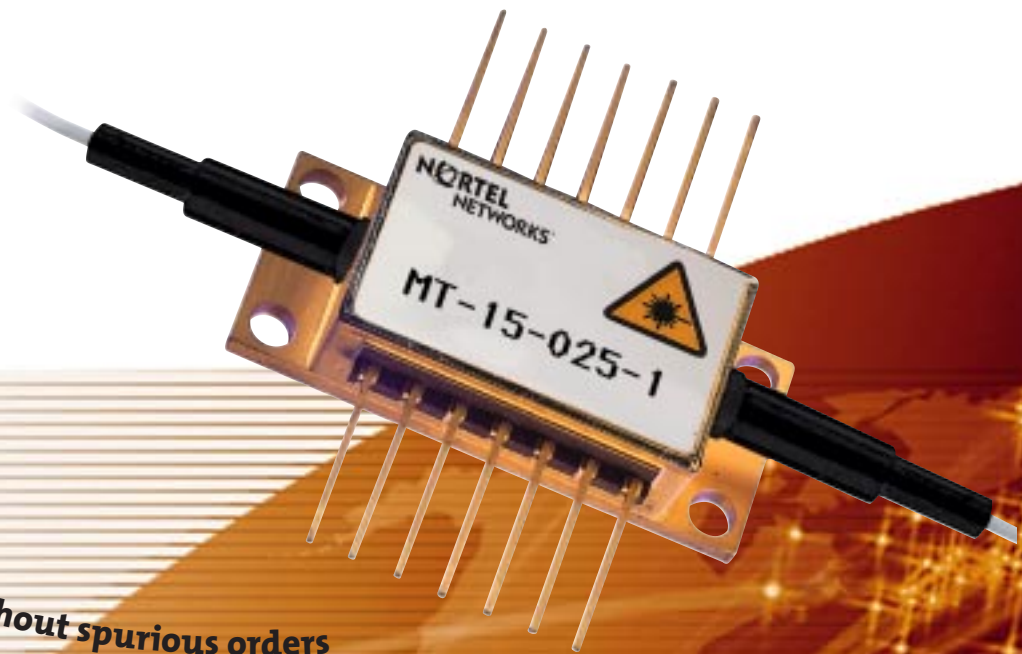


High Performance
Optical Component Solutions

MEM-TUNE™ Tunable Filter



Continuous tuning without spurious orders

Ability to tune across C and L bands

Rapid tuning speed

Simple voltage tuning

Virtually no power consumed in tuning

Applications

Gain-tilt monitoring in Fiber Amplifiers, Optical performance monitoring in central offices, Channel selection at receive side of WDM systems, Compact test instrumentation, ASE suppression in tunable laser systems

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High Performance Optical Component Solutions

The MEM-TUNE Tunable Filter

The MEM-TUNE tunable filter is a micro electro-mechanical Fabry-Perot etalon featuring a proprietary half-symmetrical confocal cavity. MEM-TUNE is offered in a range of line-widths enabling a variety of monitoring and filtering solutions for DWDM. The filters are offered in hermetic 14-pin butterfly packages with SM-fiber pigtails.

Pin Information

Pin	Name	Pin	Name
1	TEC(+)	14	TEC(-)
2	Case	13	NC
3	Thermistor	12	NC
4	Thermistor	11	Case
5	Tuning(-) case	10	Tuning(+)
6	Tuning(-) case	9	Tuning(+)
7	NC	8	NC

Ordering Information

Part #	Description	Pin
MT-15-025-1	25 GHz Tunable Filter	None
MT-15-025-4	25 GHz Tunable Filter	SC/APC
MT-15-100-1	100 GHz Tunable Filter	None
MT-15-100-4	100 GHz Tunable Filter	SC/AP
MT-DK	Filter Development Kit	-

Enquiries

Nortel Networks Optical Components Ltd.

Brixham Road
Paignton
Devon
TQ4 7BE
United Kingdom
Tel: +44 1803 662948
Fax: +44 1803 662801
Email: opticalcomponents@nortelnetworks.com

www.nortelnetworks.com/components/

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Optical Performance

Parameter	Min	Typical	Max	Unit
FWHM				
MT-15-025	-	20	-	pm
MT-15-100	-	100	-	pm
Tuning Range ($\Delta\lambda$)	-	100	-	nm
Wavelength Range	1525-1570	-	-	nm
Tuning Speed	-	-	10	nm/ μ s
Tuning Voltage	-	-	40	V
Free Spectral Range	150	-	-	nm
PDL	-	<0.2	-	dB
Insertion Loss				
MT-15-025	-	3	7	dB
MT-15-100	-	1.5	3	dB
25dB Suppression				
Frequency				
MT-15-025	-	-	25	GHz
MT-15-100	-	-	100	GHz
Finesse				
MT-15-025	7,500	-	-	-
MT-15-100	1,500	-	-	-

