

# SPIDERLITE MSA SERIES

ULTRA COMPACT MULTIPLE PORTS HIGH POWER FIBER AMPLIFIERS

## FEATURES

- Very small form factor
- Multiple ports up to 8
- Several power configurations per port (8x20 dBm, 4x23 dBm, 1x30 dBm...)
- High efficiency design with low power consumption
- Low Noise Figure
- Low analog signal distortion (CNR, CSO, CTB)
- Wide operating temperature range (-20°C to 70°C)
- Highly reliable
- Analog interface

## APPLICATIONS

- FTTx & CATV transmission
- Sensing
- Test & Measurements
- Highly integrated fiber optic systems

*Keopsys has designed a unique ultra-compact multi-port fiber amplifier.*

*This ultra-compact low noise and low distortion amplifier is particularly adapted to blast and split applications at the head-end or distribution hubs in FTTx transmission systems.*

*This amplifier can also substitute to many stand-alone and single-Port EDFAs and is well suited to any highly integrated optical system.*





# SPIDERLITE MSA

## KPS-STD-MSA-CATV-0818-MU-MU

Optical specifications (all optical specifications given at 25°C except if notified)						
Characteristic	Symb.	Min.	Typ.	Max	Units	Notes / conditions
Total seed input power	$P_{in}$	-8	-	8	dBm	other range on request
Saturated output power per port	$P_{out \text{ per port}}$	18	-	-	dBm	8 ports
Output port uniformity	OPU	-	0.4	0.6	dB	8 ports
Operating wavelength	OW	1545	-	1560	nm	
Output power stability (% rms over 8hours, 25°C)	OPS	-		1	%	in APC mode
Optical polarization	Pol	Random				
Noise figure	NF	-	-	6	dB	at $P_{in} = 0 \text{ dBm @ } 1550\text{nm}$
Polarization mode dispersion	PMD	-	-	0.3	ps	
Polarization dependent gain	PDG	-	-	0.3	dB	
Input and output isolation	II & OI	40	-	-	dB	
Input and output monitoring	IM & OM	Yes				
Input and output fiber	IF& OF	SMF				900 $\mu\text{m}$ Jacket
Input and output fiber length	FL	-	0.75	-	m	
Input and output connector	IC	MU/SPC				Other type on request

Electrical specifications						
Characteristic	Symb.	Min.	Typ.	Max	Units	Notes / conditions
Control mode		ACC, APC				
Interface		Analog				
Supply voltage (VDC)		5		12	<b>V</b>	
Warm up time		-	-	10	<b>min</b>	
Power Consumption		-	-	20	<b>W</b>	

Mechanical & environmental specifications						
Characteristic	Symb.	Min.	Typ.	Max	Units	Notes / conditions
Housing		90x70x12			<b>mm</b>	MSA format
Cooling		Conductive via bottom surface				
Operating case temperature	<i>OCT</i>	-10	-	65	<b>°C</b>	
Storage temperature	<i>TS</i>	-40	-	85	<b>°C</b>	
Humidity	<i>H</i>	5	-	85	<b>%</b>	non condensing