Active (2+1) ×1 Combiner

▶▶ **Description**

■ This active pump combiner is build by coupling pump fiber power directly into doped fiber (say Yb-doped, or Er/Yb-doped etc.), the signal input fiber is passive fiber, and the splice point is put inside combiner.

　　Normally customer splices doped fiber with combiner output passive fiber, which will cause backward scattering. Active combiner makes customer no need to splice again outside combiner and will get very good isolation between backward light and pump lasers.

▶▶ **Features**

■ High Power Transfer Efficiency
■ Wavelength Insensitivity
■ Customized Configurations Available

▶▶ **Specifications**

Type	Signal Operating WL (nm)	Pump fiber	Input signal Fiber	Output fiber	Signal IL(dB)	Pump Effi. (%)	Max Pump Power per Port	Remark	Package
(2+1) ×1	1000~1100	105/125 0.15 or 0.22	HI 1060 or x/125 SCF or DCF (x=6,10, 15, 20um etc.)	x/125 Yb-doped DCF (x=6,10, 15, 20um etc.)	≤0.7(Typ.0.5)	≥90(Typ.92)	25W		C1,C2,C4
(2+1) ×1	1000~1100	105/125 0.15 or 0.22	x/250 SCF or DCF (x=25, 30um etc.)	x/250 Yb-doped DCF (x=25, 30um etc.)	≤0.7(Typ.0.5)	≥93(Typ.95)	25W		C1,C2,C4
(2+1) ×1	1550	105/125 0.15 or 0.22	SMF28e	x/125 Er/Yb-doped DCF (x=6,10, 15, 20um etc.)	≤0.7(Typ.0.5)	≥90(Typ.92)	25W		C1,C2,C4
PM (2+1) ×1	1000~1100	105/125 0.15 or 0.22	PM980 or PM x/125 SCF or DCF (x=6,10, 15, 20um etc.)	x/125 Er/Yb-doped DCF (x=6,10, 15, 20um etc.)	≤0.7(Typ.0.5)	≥90(Typ.92)	25W	PER>18dB	C1,C2,C4
PM (2+1) ×1	1000~1100	105/125 0.15 or 0.22	PM x/250 SCF or DCF (x=25, 30um etc.)	PM x/250 Yb-doped DCF(x=25, 30um etc.)	≤0.7(Typ.0.5)	≥93(Typ.95)	25W	PER>18dB	C1,C2,C4
PM (2+1) ×1	1550	105/125 0.15 or 0.22	PM1550 SCF or DCF	PM x/125 Er/Yb-doped DCF(x=6,10, 15, 20um etc.)	≤0.7(Typ.0.5)	≥90(Typ.92)	25W	PER>18dB	C1,C2,C4

All Combiner package size as follows:
　　C1:50×5×5mm,C2:Φ4×L60mm,C3:70×12×8mm (7.0x54mm), C4: 70×12×8mm(8.4x54mm) C7: 100x15x10mm

▶▶ **Product Ordering Information:**

MPC-(N+1)x1-X-XXX – XXXX - XXX- XXX- X-X

　　　　➤ Fiber Length
　　　　➤ Package Code: C1,C2,C4 etc
　　　　➤ Output Fiber Code
　　　　➤ Input Pump Fiber Code/Input Signal Fiber Code
　　　　➤ Signal Wavelength
　　　　➤ Pump Wavelength/Pump Power
　　　　➤ Pump Direction: F=Forward, B=Backward
　　　　➤ Port: (2+1) x1
　　　　➤ Or PMMPC (PM Multimode Pump Combiner)