

MINI PLC SPLITTER

REFERENCE VALUES - PENDING KANGHAO ENGINEERING CONFIRMATION

Engineering comparison data; final product ratings require a confirmed Kanghao specification.

Optical reference values

Parameter	1x2	1x4	1x8	1x16	1x32
Wavelength (nm)	1260-1650	1260-1650	1260-1650	1260-1650	1260-1650
Insertion loss (dB)	Unclear*	≤ 7.4	≤ 10.5	≤ 13.8	≤ 17.1
Uniformity (dB)	≤ 0.6	≤ 0.7	≤ 0.8	≤ 1.0	≤ 1.5
Return loss (dB)	≥ 55 (APC)	≥ 55 (APC)	≥ 55 (APC)	≥ 55 (APC)	≥ 55 (APC)
PDL (dB)	≤ 0.15	≤ 0.2	≤ 0.2	≤ 0.3	≤ 0.3
Directivity (dB)	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55

Ambiguous entry retained

The 1x2 insertion-loss entry is printed as " $\leq 4x1$ " in the reference. Its numeric value has not been interpreted or corrected; engineering clarification is required.

Construction and environmental reference

Parameter	Reference
Fiber / connector	OS2 G657A1; SC/APC
Pigtail / tube	1000 mm; 0.9 mm white tube
Operating / storage	-40 to +85 deg C
Listed technical standards	GR-1209-CORE; GR-1221-CORE
Inner packing	1 unit; 215 x 140 mm
Integration choices	1x2 / 4 / 8 / 16 / 32; splitter box or patch panel; quantity by arrangement

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Mechanical dimensions - mm

Dimension	1x2	1x4	1x8	1x16	1x32
Length	60	60	60	60	60
Width	7	7	7	7	20
Height	4	4	4	4	6

Application context

Silica-waveguide optical power distribution for PON, including EPON / GPON / BPON and FTTx links between distribution frames and terminal equipment. Reference standards require separate validation for the final assembly.