

SOLID-STATE NONLINEAR CONVERTERS



Solid-State Raman Shifter (Model LZ221)

The Solid State Raman Shifters LZ series use innovative technology Ba(NO₃)₂ and KGdWO₄ crystals. Unique crystal properties and optimal cavity design allow to obtain Raman frequency conversion with more than 50% efficiency.

Unlike gas Raman Shifters using high pressure cells, the LZ221 is characterized by complete safety in operation and low operating densities of pump radiation, what leads to additional advantages and facilitates the operation.

SPECIFICATIONS

Specifications are subject to change without notice

Pump laser type	Pump wavelength, nm	Active medium*	Output wavelength, nm		
			1st Stokes	2nd Stokes	3rd Stokes
Nd:YAG	532	1	555	579	606
		2	559	588	621
		3	563	599	639
	1064	1	1159	1272	1409
		2	1177	1317	1494
		3	1197	1369	1598
	1318	1	1466	1652	—
		2	1496	1729	—
		3	1529	1820	—
Ruby	694	1	733	777	826
		2	740	793	854
		3	748	812	887
Ti:Sapphire	750...950	1	796...1025	848...1112	907...1216
		2	804...1039	867...1146	941...1279
		3	814...1055	890...1186	981...1354
Forsterite	1200...1300	1	1322...1444	1471...1624	—
		2	1346...1473	1531...1698	—
		3	1372...1505	1603...1786	—

Dimensions — (323 x 91 x 65) mm

* 1 – KGdWO₄ crystal, shift 767.3 cm⁻¹
 2 – KGdWO₄ crystal, shift 901.5 cm⁻¹
 3 – Ba(NO₃)₂ crystal, shift 1047 cm⁻¹

ISO 9001 certified

