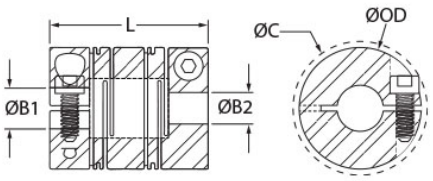
RLC13-5-3-A

Ruland RLC13-5-3-A, 0.313" x 0.188" Long Slit Coupling, Aluminum, Clamp Style, 0.787" OD, 1.024" length





Description

Ruland RLC13-5-3-A is a clamp style slit coupling with 0.3125" x 0.1875" bores, 0.787" OD, and 1.024" length. It is manufactured from a single piece of material and has two sets of intermittent slit cuts allowing for a maintenance-free coupling with high torsional stiffness in relation to comparable couplings, such as beam type. RLC13-5-3-A is commonly used in precise positioning applications found in semiconductor, medical, and test and measurement equipment. This long style slit coupling has added torque and misalignment capabilities compared to the short style. RLC13-5-3-A is zero-backlash, has a balanced design for reduced vibration at speeds up to 10,000 RPM, and can accommodate all forms of misalignment with light bearing loads. It is manufactured by Reliance Precision Ltd. in their County Cork, Ireland factory from 7075 aluminum for lightweight and low inertia. RLC13-5-3-A is inventoried by Ruland and RoHS3 and REACH compliant.

Product Specifications

Bore (B1)	0.3125 in	**Small Bore (B2)**	0.1875 in
B1 Max Shaft Penetration	0.339 in	**B2 Max Shaft Penetration**	0.339 in
Outer Diameter (OD)	0.787 in	**Bore Tolerance**	+0.001 in / -0.000 in
Length (L)	1.024 in	**Clearance Diameter (C) MAX**	0.858 in
Cap Screw	M2.5	**Screw Material**	18-8 300 Series Stainless Steel
Hex Wrench Size	2.0 mm	**Screw Finish**	Bright
Seating Torque	0.73 Nm	**Number of Screws**	2
Dynamic Torque Reversing	8.4 lb-in	**Angular Misalignment**	3.0°
Dynamic Torque Non-Reversing	12.8 lb-in	**Parallel Misalignment**	0.010 in
Peak Torque	21.7 in-lb	**Axial Motion**	0.020 in
Torsional Stiffness	20.4 lb-in/Deg	**Moment of Inertia**	0.0033506 lb-in²
Maximum Speed	7,500 RPM	**Full Bearing Support Required?**	Yes
Zero-Backlash?	Yes	**Balanced Design**	Yes
Material Specification	7075-T651 Extruded and Drawn Aluminum Bar	**Temperature**	-110°F to 175°F (-80°C to 80°C)
Finish Specification	SurTec 650	**Manufacturer**	Reliance Precision Limited
Country of Origin	Ireland	**Weight (lbs)**	0.037900
UPC	634529299425	**Tariff Code**	8483.60.8000
UNSPC	31163003		
Note 1	Performance ratings are for guidance only. The user must determine suitability for a particular application.		
Prop 65			

⚠**WARNING** This product can expose you to the chemical Nickel (metallic), known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.