

Precision Resin Rods

Ceramic Rods / Transparent Resin Rods

Tolerance is highly precise since the exterior surface is finished with centerless grinding.

Type	Material	Color
RDPJ	Polyacetal - Standard	White
RDPK	Polyacetal - Standard	Black
RDPP	PEEK - Standard	Gray
RDPE	Epoxy Glass - Standard	Green

Use alteration LKC for L dimension tolerance precision grade. For characteristic values, see P.953, 954.

Part Number Type	D	L 1mm increment	
RDPJ (Polyacetal - Standard, White)	3	10~250	
	4		
	5		
	6	10~500	
	8		
	10		
	12		
	RDPK (Polyacetal - Standard, Black)	15	10~750
		16	10~800
		20	20~800

Part Number Type	D	L 1mm increment
RDPP (PEEK - Standard)	3	10~250
	4	
	5	
	6	10~500
	8	
	10	
RDPE (Epoxy Glass - Standard)	12	10~750
	15	10~800

Ordering Example: Part Number **RDPJ10** - L **300**

Alterations Example: Part Number **RDPJ10** - L **100** - (LKC)

Alteration	L Dimension Tolerance
Code	LKC
Spec.	Changes L dimension tolerance as follows. 10~400mm±0.3 401~800mm±0.8 Ordering Code LKC 8≤D≤20 Not applicable to RDPE.

Part Number Type	D	Min. L - 100	L101-200	L201-400	L401-600	L601-800
RDPJ (Polyacetal - Standard, White)	3					
	4					
	5					
	6					
	8					
	10					
	12					
	15					
	16					
	20					
RDPK (Polyacetal - Standard, Black)	3					
	4					
	5					
	6					
	8					
	10					
	12					
	15					
	16					
	20					

Part Number Type	D	Min. L - 100	L101-200	L201-400	L401-600	L601-750	
RDPP (PEEK - Standard)	3						
	4						
	5						
	6						
	8						
	10						
	12						
	RDPE (Epoxy Glass - Standard)	3					
		4					
		5					
		6					
		8					
12							

Ceramic Rods excel in insulation, abrasion resistance and heat resistance; Transparent Resin Rods excel in transparency and insulation.

Ceramic Rods CERAR

Material: Alumina 99.5

Part Number Type	D	L 1mm increment	Unit Price		
			L30-100	L101-200	L201-300
CERAR	3	30~300			
	4				
	5				
	6				
	10				

Properties	Unit	Alumina 99.5
Water Absorption Ratio	%	0
Bulk Density	g/cm ³	3.9
Heat Resistance	°C	1000~1200
Compression Strength	kN/cm ²	363
Bending Strength	kN/cm ²	49
Linear Thermal Expansion Coefficient	-	8.0x10 ⁻⁶ (25~700°C)
Thermal Conductivity	W/(m·°C)	31.4 (20°C) 16.0 (300°C)
Specific Volume Resistivity	Ω·cm	10 ¹⁴ < (20°C) 10 ¹⁴ < (300°C)
Dielectric Constant	1MHz	9.8
Insulation Resistance	kV/mm	10

Washers and Collars (P.153), Bushings for Locating Pins (P.1-1686) and Circular Plates (P.991) are also available.

Ordering Example: Part Number **CERAR6** - L **200**

Transparent Resin Rods

Type	Material	Color
RDJA	Acrylic - Standard	Transparent
RDJC	Polycarbonate - Standard	Transparent

The acrylic rod is made by machining the cast plate into a round rod and finished by centerless grinding.

For characteristic values, see P.949.

Part Number Type	D	L 1mm increment	Unit Price							
			RDJA			RDJC				
			L10-100	L101-200	L201-400	L401-600	L10-100	L101-200	L201-600	
RDJA Acrylic - Standard	3	10~250								
	4									
	5									
	RDJC Polycarbonate - Standard	6	10~600							
		8								
		10								
		12								
		15								
		20								
	25									
	30									

The end face is not transparent because tooling marks remain on the surface.

Ordering Example: Part Number **RDJA3** - L **250**