

MSXP-C-W-SP Coupling for Vacuum Variable Capacitor

Zero Backlash Electrical Insulation

Structure



- This is a resin spring coupling with single-piece construction.
- PEEK superior in physical properties and electrical insulation is adopted.
- A plate spring formed by a slit allows eccentricity, angular misalignment, and end-play to be accepted.

Property

| | MSXP-C-W-SP |
|---------------------------------|----------------|
| Zero Backlash | ◎ |
| Allowable Misalignment | ○ |
| Electrical Insulation | ◎ |
| Allowable Operating Temperature | -20°C to 120°C |

Application

High Frequency Power Supply / Matching Box

Material/Finish

| | MSXP-C-W-SP | RoHS |
|---------------------------|-------------------------------|------|
| Main Body | PEEK (Polyether Ether Ketone) | |
| Hex Socket Head Cap Screw | SUSXM7 | |

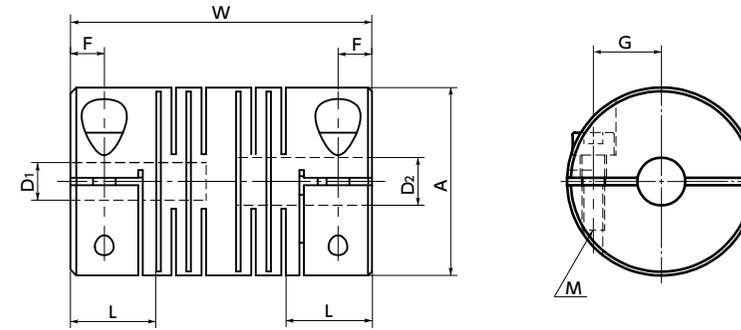
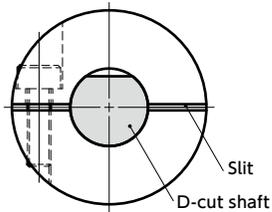
⚠ Precautions for Use

- Mounting on a D-cut shaft

As a rule, use round shafts.

If a D-cut shaft is used, excessive load may be applied depending on the mounting position of the D-cut side due to hex socket head cap screw tightening, which may result in damage to the coupling.

When using a D-cut shaft, install it so that the D-cut surface of the shaft does not get caught in the coupling slit as much as possible as shown below.



Dimensions

| Part Number | A | L | W | F | G | M | D1 | D2 | Screw Tightening Torque (N·m) | Unit: mm |
|--------------------------------|----|------|----|-----|---|----|----|------|-------------------------------|----------|
| MSXP-25C-W40-5-6.35-SP3 | 25 | 11.4 | 40 | 4.5 | 9 | M3 | 5 | 6.35 | 0.6 | |

- All products are provided with hex socket head cap screw.

Performance

| Part Number | Rated Torque (N·m)*1 | Max. Rotational Frequency (min ⁻¹) | Moment of Inertia (kg·m ²)*2 | Static Torsional Stiffness (N·m/rad) | Max. Lateral Misalignment (mm) | Max. Angular Misalignment (°) | Max. Axial Misalignment (mm) | Mass (g)*2 |
|--------------------------------|----------------------|--|--|--------------------------------------|--------------------------------|-------------------------------|------------------------------|------------|
| MSXP-25C-W40-5-6.35-SP3 | 1.3 | 6000 | 1.9×10 ⁻⁶ | 50 | 0.3 | 1.2 | ±0.33 | 23 |

*1: Correction of rated torque due to load fluctuation is not required.

- Part number specification

MSXP-25C-W40-5-6.35-SP3



| | | |
|--|---|--|
| Additional Keyway at Shaft Hole → P. xxxx Not Available | Cleanroom Wash & Packaging → P. xxxx Cleanroom washed and packed | Change to Stainless Steel Screw → P. xxxx Changed to the S.S. screw |
|--|---|--|