

PRODUCT DATASHEET

ES-HG-S05-F14-R120

Precision Transmission Component

Cup Harmonic Gearboxes | High-Torque Cup Unit Type I

Product Overview

Precision Transmission Component with reduction Ratio 120, frame Size 14 and angular Transmission Accuracy 1.5 arc min.

Key Specifications

PARAMETER	VALUE	UNIT
Reduction Ratio	120	
Frame Size	14	
Angular Transmission Accuracy	1.5	arc min
Hysteresis Loss	1	arc min
Wave Generator Dimension T	7+0.10 / 9.4+0.10	mm
Wave Generator Bore U	φ6H7 / φ8H7	
Wave Generator Keyway W	2JS9/P9 / 3JS9/P9	
Torsional Rigidity K1	0.47 / 4700	Nm/rad
Torsional Rigidity K2	0.61 / 6100	Nm/rad

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Angular Transmission Accuracy	1.5	arc min	
Hysteresis Loss	1	arc min	
MECHANICAL			
Frame Size	14		
Wave Generator Dimension T	7+0.10 / 9.4+0.10	mm	Varies by published configuration.
Wave Generator Bore U	φ6H7 / φ8H7		Varies by published configuration.
Wave Generator Keyway W	2JS9/P9 / 3JS9/P9		Varies by published configuration.
ADDITIONAL SPECIFICATIONS			
Reduction Ratio	120		
Torsional Rigidity K1	0.47 / 4700	Nm/rad	
Torsional Rigidity K2	0.61 / 6100	Nm/rad	
Torsional Rigidity K3	0.71 / 7100	Nm/rad	
Torsional Rigidity T2	6.9	Nm	
Torsional Rigidity T1	2	Nm	

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	14	
Wave Generator Dimension T	7+0.10 / 9.4+0.10	mm
Wave Generator Bore U	φ6H7 / φ8H7	
Wave Generator Keyway W	2JS9/P9 / 3JS9/P9	

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01 Specifications are subject to change without notice. Verify the current product configuration before final design release.

02 2D drawings, CAD files and integration documentation are controlled documents and are supplied separately on request.