

PRODUCT DATASHEET

ES-HG-S03-F14-R120

Precision Transmission Component

Harmonic Component Sets | High-Torque Cup Component Set

Product Overview

Precision Transmission Component with rated Torque 10 N·m, instantaneous Maximum Torque 58 N·m and start/Stop Peak Torque 36 N·m.

Key Specifications

PARAMETER	VALUE	UNIT
Rated Torque	10	N·m
Instantaneous Maximum Torque	58	N·m
Start/Stop Peak Torque	36	N·m
Reduction Ratio	120	
Backlash	≤20	arc sec
Maximum Input Speed	8500	r/min
Allowable Average Torque	14	N·m
Frame Size	14	
Weight	0.51	kg

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Torque	10	Nm	Frame Size: 14; Reduction Ratio: 120
Instantaneous Maximum Torque	58	Nm	Frame Size: 14; Reduction Ratio: 120
Start/Stop Peak Torque	36	Nm	Frame Size: 14; Reduction Ratio: 120
Backlash	≤20	arc sec	Frame Size: 14; Reduction Ratio: 120
Allowable Average Torque	14	Nm	Frame Size: 14; Reduction Ratio: 120
MECHANICAL			
Frame Size	14		Frame Size: 14; Reduction Ratio: 120
Weight	0.51	kg	Frame Size: 14; Reduction Ratio: 120
Wave Generator Dimension T	7+0.10 / 9.4+0.10	mm	Frame Size: 14; Option Label: Wave generator - A/B φ6; Reduction Ratio: 120; Wave Generator Option: wave-generator-eeb766ce219a / Frame Size: 14; Option Index: 1; Option Label: Wave generator - A/B φ8; Reduction Ratio: 120; Wave Generator Option: wave-generator-a9bbe4690326
Wave Generator Bore U	φ6H7 / φ8H7		Frame Size: 14; Option Label: Wave generator - A/B φ6; Reduction Ratio: 120; Wave Generator Option: wave-generator-eeb766ce219a / Frame Size: 14; Option Index: 1; Option Label: Wave generator - A/B φ8; Reduction Ratio: 120; Wave Generator Option: wave-generator-a9bbe4690326
Wave Generator Keyway W	2JS9/P9 / 3JS9/P9		Frame Size: 14; Option Label: Wave generator - A/B φ6; Reduction Ratio: 120; Wave Generator Option: wave-generator-eeb766ce219a / Frame Size: 14; Option Index: 1; Option Label: Wave generator - A/B φ8; Reduction Ratio: 120; Wave Generator Option: wave-generator-a9bbe4690326
RELIABILITY			
Design Life	15000	h	Frame Size: 14; Reduction Ratio: 120
ADDITIONAL SPECIFICATIONS			
Reduction Ratio	120		Frame Size: 14; Reduction Ratio: 120
Maximum Input Speed	8500	r/min	Frame Size: 14; Reduction Ratio: 120
Average Input Speed	3500	r/min	Frame Size: 14; Reduction Ratio: 120

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	14	
Weight	0.51	kg
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.