

PRODUCT DATASHEET

ES-HG-S04-F17-R100

Precision Transmission Component

Harmonic Component Sets | High-Torque Hat Component Set

Product Overview

Precision Transmission Component with rated Torque 31 Nm, instantaneous Maximum Torque 143 Nm and start/Stop Peak Torque 70 Nm.

Key Specifications

PARAMETER	VALUE	UNIT
Rated Torque	31	Nm
Instantaneous Maximum Torque	143	Nm
Start/Stop Peak Torque	70	Nm
Reduction Ratio	100	
Backlash	≤20	arc sec
Maximum Input Speed	7300	r/min
Allowable Average Torque	51	Nm
Frame Size	17	
Weight	0.19	kg

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Torque	31	Nm	Frame Size: 17; Reduction Ratio: 100
Instantaneous Maximum Torque	143	Nm	Frame Size: 17; Reduction Ratio: 100
Start/Stop Peak Torque	70	Nm	Frame Size: 17; Reduction Ratio: 100
Backlash	≤20	arc sec	Frame Size: 17; Reduction Ratio: 100
Allowable Average Torque	51	Nm	Frame Size: 17; Reduction Ratio: 100
MECHANICAL			
Frame Size	17		Frame Size: 17; Reduction Ratio: 100
Weight	0.19	kg	Frame Size: 17; Reduction Ratio: 100
Wave Generator Dimension T	9.4+0.10 / 12.8+0.10	mm	Frame Size: 17; Option Label: Wave generator - A φ8; Reduction Ratio: 100; Wave Generator Option: wave-generator-e6e55a341aa3 / Frame Size: 17; Option Index: 1; Option Label: Wave generator - A φ11; Reduction Ratio: 100; Wave Generator Option: wave-generator-fd26f6670d9b
Wave Generator Bore U	φ11H7 / φ8H7		Frame Size: 17; Option Index: 1; Option Label: Wave generator - A φ11; Reduction Ratio: 100; Wave Generator Option: wave-generator-fd26f6670d9b / Frame Size: 17; Option Label: Wave generator - A φ8; Reduction Ratio: 100; Wave Generator Option: wave-generator-e6e55a341aa3
Wave Generator Keyway W	3JS9/P9 / 4JS9/P9		Frame Size: 17; Option Label: Wave generator - A φ8; Reduction Ratio: 100; Wave Generator Option: wave-generator-e6e55a341aa3 / Frame Size: 17; Option Index: 1; Option Label: Wave generator - A φ11; Reduction Ratio: 100; Wave Generator Option: wave-generator-fd26f6670d9b
RELIABILITY			
Design Life	15000	h	Frame Size: 17; Reduction Ratio: 100
ADDITIONAL SPECIFICATIONS			
Reduction Ratio	100		Frame Size: 17; Reduction Ratio: 100
Maximum Input Speed	7300	r/min	Frame Size: 17; Reduction Ratio: 100
Average Input Speed	3500	r/min	Frame Size: 17; Reduction Ratio: 100

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	17	
Weight	0.19	kg
Wave Generator Dimension T	9.4+0.10 / 12.8+0.10	mm
Wave Generator Bore U	φ11H7 / φ8H7	
Wave Generator Keyway W	3JS9/P9 / 4JS9/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.