PRODUCT DATASHEET

ES-HG-S24-F25-R80

Precision Transmission Component

Hat Harmonic Gearboxes | Standard Hat Unit Type I

Product Overview

Precision Transmission Component with rated Torque 63 N·m, instantaneous Maximum Torque 255 N·m and start/Stop Peak Torque 137 N·m.

Key Specifications

PARAMETER	VALUE	UNIT
Rated Torque	63	N·m
Instantaneous Maximum Torque	255	N·m
Start/Stop Peak Torque	137	N·m
Reduction Ratio	80	
Backlash	≤20	arc sec
Maximum Input Speed	5600	r/min
Allowable Average Torque	87	N·m
Frame Size	25	
Weight	1.22	kg

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Torque	63	N·m	Frame Size: 25; Reduction Ratio: 80
Instantaneous Maximum Torque	255	N·m	Frame Size: 25; Reduction Ratio: 80
Start/Stop Peak Torque	137	N·m	Frame Size: 25; Reduction Ratio: 80
Backlash	≤20	arc sec	Frame Size: 25; Reduction Ratio: 80
Allowable Average Torque	87	N·m	Frame Size: 25; Reduction Ratio: 80
MECHANICAL			
Frame Size	25		Frame Size: 25; Reduction Ratio: 80
Weight	1.22	kg	Frame Size: 25; Reduction Ratio: 80
Wave Generator Dimension T	12.8+0.10 / 16.3+0.10	mm	Frame Size: 25; Option Label: Wave generator - A φ11; Reduction Ratio: 80; Wave Generator Option: wave-generator-fd26f6670d9b / Frame Size: 25; Option Index: 1; Option Label: Wave generator - A φ14; Reduction Ratio: 80; Wave Generator Option: wave-generator-307ae5fd0846
Wave Generator Bore U	φ11H7 / φ14H7		Frame Size: 25; Option Label: Wave generator - A φ11; Reduction Ratio: 80; Wave Generator Option: wave-generator-fd26f6670d9b / Frame Size: 25; Option Index: 1; Option Label: Wave generator - A φ14; Reduction Ratio: 80; Wave Generator Option: wave-generator-307ae5fd0846
Wave Generator Keyway W	5JS9/P9 / 4JS9/P9		Frame Size: 25; Option Index: 1; Option Label: Wave generator - A φ 14; Reduction Ratio: 80; Wave Generator Option: wave-generator-307ae5fd0846 / Frame Size: 25; Option Label: Wave generator - A φ11; Reduction Ratio: 80; Wave Generator Option: wave-generator-fd26f6670d9b
RELIABILITY			
Design Life	15000	h	Frame Size: 25; Reduction Ratio: 80
ADDITIONAL SPECIFICATIONS			
Reduction Ratio	80		Frame Size: 25; Reduction Ratio: 80
Maximum Input Speed	5600	r/min	Frame Size: 25; Reduction Ratio: 80
Average Input Speed	3500	r/min	Frame Size: 25; Reduction Ratio: 80

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	25	
Weight	1.22	kg
Wave Generator Dimension T	12.8+0.10 / 16.3+0.10	mm
Wave Generator Bore U	φ11H7 / φ14H7	
Wave Generator Keyway W	5JS9/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.