

DDT-1680DSG

Miniature Thrust Ball Bearing with Raceway Grooves

NMB / MinebeaMitsumi • T-DSG Series • 8 x 16 x 5 mm • Stainless Steel



The DDT-1680DSG is a single-direction miniature thrust ball bearing from the NMB T-DSG series. It consists of two separable stainless steel washers with machined raceway grooves and a ball-and-retainer assembly running between them, so the bearing carries axial (thrust) load in one direction only and must not be loaded radially. The ground raceway grooves seat the balls positively, giving higher load capacity and lower running torque than a flat-race thrust washer of the same size. With an 8 mm bore, 16 mm outside diameter and 5 mm overall height, it suits compact assemblies where a screw, spindle or pivot must turn freely under axial load.

GENERAL / IDENTIFICATION

Manufacturer	MinebeaMitsumi Inc. (NMB)
Part number	DDT-1680DSG
Series	T-DSG (thrust ball bearings with raceway grooves)
Bearing type	Thrust ball bearing, single row
Load direction	Axial (thrust), single direction
Raceway form	With raceway grooves
Outer ring type	Flat
Closure	Open type (no shield or seal)
Measurement system	Metric

DIMENSIONAL

Bore diameter, d	8.000 mm
Outside diameter, D	16.000 mm
Overall height, T	5.000 mm
Chamfer, C	0.2 mm

LOAD RATINGS & PRECISION

Basic dynamic load rating, Ca	3,918 N
Basic static load rating, Coa	4,990 N
Precision class	JIS Class 0

MATERIAL & COMPLIANCE

Ring material	Martensitic stainless steel
RoHS	Compliant (10 substances)

Typical applications Milling and lathe feed screws, screw jacks and adjusting spindles, RC and model drivetrains, small gearboxes and idler assemblies, fan and motor thrust faces, pivots and swivels in light machinery.