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Synchro, Control Transformer

5990-00-059-8833

NSN 5990-00-059-8833 · NIIN 000598833 · Part number 5413-134

Fraser Optics Llc Db a Fraser Optics Llc · FSC 5990 — Synchros and Resolvers · FSG 59 — Electrical and Electronic Equipment Components · CAGE 55096

GOVERNMENT RECORD, CITED

NSN 5990-00-059-8833 — this item is cataloged by the U.S. Government under National Stock Number 5990-00-059-8833. Manufacturer of record part number: **5413-134**.

ALSO SEARCHED AS 5990-00-059-8833 · 5990000598833 · NIIN 000598833 · 00-059-8833 · FSC 5990 Synchros and Resolvers · CAGE 55096 · 5413-134 · HTC-8-F-8/L924 · CTH8F8L738 · CTC8F81

NEARBY STOCK NUMBERS ← 5990-00-059-8722 · 5990-00-059-8907 →

FEATURES

- Synchro,control Transformer — FSC 5990
- Body Size: 8
- Shaft Type: ROUND, SLOTTED SINGLE SHAFT
- Flange Diameter: 0.7500 INCHES NOMINAL IN
- Undercut Width: 0.0620 INCHES NOMINAL IN
- Shaft Diameter: 0.0900 INCHES NOMINAL SINGLE SHAFT IN
- Rotor DC Resistance in Ohms: 400.00 NOMINAL
- Undercut Diameter: 0.6910 INCHES NOMINAL IN

IDENTIFICATION

- NSN: 5990-00-059-8833
- NIIN: 000598833
- FSC: 5990 — Synchros and Resolvers
- FSG: 59 — Electrical and Electronic Equipment Components
- Primary part number: 5413-134
- Manufacturer: Fraser Optics Llc Db a Fraser Optics Llc

GENERAL DESCRIPTION

The Synchro,control Transformer, cataloged under National Stock Number 5990-00-059-8833, is classified within Federal Supply Class 5990 (Synchros and Resolvers) of the Electrical and Electronic Equipment Components group. The manufacturer of record is Fraser Optics Llc Db a Fraser Optics Llc. Government technical data includes 29 specifications, cited from the U.S. Government catalog. The record lists 1 manufacturer part number for this item, enabling identification through both NSN and commercial part number lookups. 5 additional reference documents (drawings, advisory and superseded references) are recorded in the U.S. Government catalog. Current acquisition status: Active.

TECHNICAL SPECIFICATIONS

PARAMETER	VALUE
NSN	5990-00-059-8833
Primary Part Number	5413-134
Item Name	Synchro,control Transformer
FSC / FSG	5990 / 59 — Synchros and Resolvers
Manufacturer	Fraser Optics Llc Db a Fraser Optics Llc
Status	ACTIVE
Body Size	8
Shaft Type	ROUND, SLOTTED SINGLE SHAFT
Flange Diameter	0.7500 INCHES NOMINAL IN

PARAMETER	VALUE
Undercut Width	0.0620 INCHES NOMINAL IN
Shaft Diameter	0.0900 INCHES NOMINAL SINGLE SHAFT IN
Rotor DC Resistance in Ohms	400.00 NOMINAL
Undercut Diameter	0.6910 INCHES NOMINAL IN
Body Style	STANDARD ROUND A
Flange Thickness	0.0620 INCHES NOMINAL IN
Stator Input Current Rating	30.4 MILLIAMPERES NOMINAL
Phase Shift Angle in Deg	13.800 INPUT TO OUTPUT NOMINAL
Mounting Surface to Terminal End Distance	1.2410 INCHES MAXIMUM IN
Frequency in Hertz	400.0 NOMINAL
Zro Resistance in Ohms	540.00 NOMINAL
Stator Input Electrical Power Rating	745.0 MILLIWATTS NOMINAL
Plus J Zso Reactance in Ohms	12970.00 NOMINAL
Terminal Location	REAR
Shaft Length	0.5000 INCHES NOMINAL SINGLE SHAFT IN
Pilot Diameter	0.5000 INCHES NOMINAL IN
Stator Input Voltage Rating in Volts	115.0 NOMINAL
Shaft Slot Width	0.0250 INCHES NOMINAL SINGLE SHAFT IN
Plus J Zro Reactance in Ohms	11947.00 NOMINAL
Pilot Length	0.0620 INCHES NOMINAL IN
Zso Resistance in Ohms	931.00 NOMINAL
Actuator Friction Torque at Plus 25 Deg Celsius	3.0 CENTIMETER-GRAMS NOMINAL CM
Actuator Friction Torque at Minus 55 Deg Celsius	6.0 CENTIMETER-GRAMS NOMINAL CM
Material	STEEL CORROSION RESISTING BODY
Terminal Type and Quantity	5 WIRE LEAD
Stator DC Resistance in Ohms	816.00 NOMINAL

Lifecycle & Compliance

Acquisition Status	ACTIVE
DEMIL Code	DEMIL Q – CCL ITEM – COMMERCE CONTROL LIST
Hazard	NO HAZARD CODE IN THE DLA RECORD (HMIC N)
Criticality Code	X

Cross-Reference Index

PART NUMBER	MANUFACTURER
5413-134	Fraser Optics Llc DbA Fraser Optics Llc (USA)

REFERENCE	MEANING
HTC-8-F-8/L924	3/2 Design control — primary reference U.S. Government activity
CTH8F8L738	5/9 Secondary reference U.S. Government activity
CTC8F81	5/9 Secondary reference U.S. Government activity
5413-134	5/9 Secondary reference U.S. Government activity

REFERENCE	MEANING
5413-134	5/9 Secondary reference Recon/optical, Inc.

No interchangeability data on file.

OTHER ITEMS IN FSC 5990 – SYNCHROS AND RESOLVERS

Items in the same Federal Supply class. No interchangeability or substitution relationship is implied.

5990-00-001-1764 SYNCHRO,DIFFERENTIAL TRANSMITTER	5990-00-001-1765 SYNCHRO,TRANSMITTER	5990-00-001-1766 SYNCHRO,CONTROL TRANSFORMER	5990-00-001-4570 5990-00-001-4570 · Item name not on file
5990-00-001-5956 5990-00-001-5956 · Item name not on file	5990-00-001-7588 SYNCHRO,TRANSMITTER	5990-00-003-0177 5990-00-003-0177 · Item name not on file	5990-00-003-0569 RESOLVER,ELECTRICAL

FREQUENTLY ASKED QUESTIONS

What is NSN 5990-00-059-8833?

NSN 5990-00-059-8833 is a Synchro,control Transformer, manufactured by Fraser Optics Llc Dba Fraser Optics Llc, classified under FSC 5990, Synchros and Resolvers. Status: active.

What part numbers are listed for NSN 5990-00-059-8833?

NSN 5990-00-059-8833 has 1 manufacturer part number on file: 5413-134 (Fraser Optics Llc Dba Fraser Optics Llc).

What are the specifications of 5413-134?

Key specifications for 5413-134: Body Size: 8; Shaft Type: ROUND, SLOTTED SINGLE SHAFT; Flange Diameter: 0.7500 INCHES NOMINAL IN; Undercut Width: 0.0620 INCHES NOMINAL IN. 29 specifications are documented in the U.S. Government catalog.

Is NSN 5990-00-059-8833 hazardous material?

No hazard code in the DLA record (HMIC N). Hazard information on this page is shown exactly as it appears in the DLA record.

What is the DEMIL code for NSN 5990-00-059-8833?

NSN 5990-00-059-8833 has DEMIL Code Q. Demilitarization may be required before disposal or transfer to non-military entities.

SOURCES

- U.S. Government catalog: edition PUBLOGDVD v12.0.0 (OCT 2026), edition date 2026-10-01, retrieved 2026-10-16.
- U.S. Government catalog: edition PUBLOGDVD v12.0.0 (OCT 2026), edition date 2026-10-01, retrieved 2026-10-18.

PartsTable — the parts reference. Every fact cited to its source.

partstable.com/parts/5990-00-059-8833


 Data cited from the U.S. Government catalog; commercial cross-references from OEM and certified industry sources.


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