

# IXTT500N04T2 Datasheet

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DiGi Electronics Part Number	IXTT500N04T2-DG
Manufacturer	<a href="#">IXYS</a>
Manufacturer Product Number	IXTT500N04T2
Description	MOSFET N-CH 40V 500A TO268
Detailed Description	N-Channel 40 V 500A (Tc) 1000W (Tc) Surface Mount TO-268AA



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## Purchase and inquiry

**Manufacturer Product Number:**

IXTT500N04T2

**Series:**

TrenchT2™

**FET Type:**

N-Channel

**Drain to Source Voltage (Vdss):**

40 V

**Drive Voltage (Max Rds On, Min Rds On):**

10V

**Vgs(th) (Max) @ Id:**

3.5V @ 250µA

**Vgs (Max):**

±20V

**FET Feature:**

-

**Operating Temperature:**

-55°C ~ 175°C (Tj)

**Supplier Device Package:**

TO-268AA

**Base Product Number:**

IXTT500

**Manufacturer:**

IXYS

**Product Status:**

Active

**Technology:**

MOSFET (Metal Oxide)

**Current - Continuous Drain (Id) @ 25°C:**

500A (Tc)

**Rds On (Max) @ Id, Vgs:**

1.6mOhm @ 100A, 10V

**Gate Charge (Qg) (Max) @ Vgs:**

405 nC @ 10 V

**Input Capacitance (Ciss) (Max) @ Vds:**

25000 pF @ 25 V

**Power Dissipation (Max):**

1000W (Tc)

**Mounting Type:**

Surface Mount

**Package / Case:**TO-268-3, D<sup>3</sup>Pak (2 Leads + Tab), TO-268AA

## Environmental & Export classification

**RoHS Status:**

ROHS3 Compliant

**REACH Status:**

REACH Unaffected

**HTSUS:**

8541.29.0095

**Moisture Sensitivity Level (MSL):**

1 (Unlimited)

**ECCN:**

EAR99

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