

# Johanson Part Number TDDF160X224MZGV001U

Johanson Part Number: TDDF160X224MZGV001U

Johanson Company: JDI

Legacy P/N: 160S41X224MV3U

Size for Capacitors (EIA): 1210

Description: Capacitors SMT, X5R, 1210, 16V, 0.22 $\mu$ F $\pm$ 20%, Ni/Sn (RoHS), 13" Reel Embossed Tape

Specification Number: None

Life Cycle Stage: Ramp down (active , but not recommended for new designs)

NCNR: No

AEC Q200 Qualified: No

Thickness (Max): 0.065

Schedule B: 8532.24.00.20

Thickness (Min): None

ITAR: No

End Band(Min): 0.01

ECCN: EAR99

End Band (max): 0.030

RoHS Compliance: Yes, RoHS 10/10

Standard Item: Yes

REACH: Yes

Lead Time Typical (Weeks)\*: 14

Country of Origin: US, MX, or CN

Length (Min): 0.115

Product Family: Capacitors

Length (Max): 0.135

Product Subfamily: Capacitors Surface Mount < 500V

Width (Min):0.085

Capacitance Value: 0.220

Width (Max): 0.105

Cap Unit of Meas:  $\mu$ F

Part Weight (mg): 80.00

Tolerance:  $\pm$ 20%

Packaged Width (lb) Arm: None

Voltage: 16.0

Packaging: 13" Reel Embossed Tape

Dielectric Temp Coefficient: X5R

Packaging Qty: None

Termination: 68

Operating Temp Range: -55°C to +85°C

Marking: Special

Storage Temp Range (Packaged): -65°C to +125°C

Product Release Date: Jan. 10, 2006, 8 a.m.

Storage Temp Range (None Operating): +5°C to +40°C with RH 20% to 70%

Harmonization: 8532.24.00.20

\*This can vary significantly so it is important to obtain a quotation with lead time for production planning purposes.

Web Page Link: <https://www.johansondielectrics.com/surface-mount-mlc-capacitors>

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