General Electric 531X128HMSADG1

Technical Reference and Engineering Data

GE 531X-family printed-circuit board cross-identified as a VA-4 metal-oxide-varistor transient suppression card.

01 Exact identity and system role

Complete model	531X128HMSADG1
Product type	MOV suppression board
Manufacturer	General Electric
Technical source	Cross-checked technical records for GE 531X128HMSADG1 / VA-4 MOV suppression card identity
Board function	MOV transient suppression
Board designation	VA-4 MOV suppression card
Hardware class	Drive/control accessory printed-circuit board
Platform family	GE 531X board family
Suppression technology	Metal-oxide varistor network
Service boundary	Verify board revision, terminal markings and host wiring from the installed assembly

System position

The offered board is the suppression element only; the host drive/control assembly, protective devices and terminal wiring remain system-level components.

Lifecycle and installed-base context

Platform context	531X128HMSADG1 belongs to the legacy GE 531X drive/control board family.
Verified identity	Multiple reliable records agree on the MOV suppression-board / VA-4 card role.
Replacement boundary	Release depends on exact revision, host circuit, terminal mapping and system-level protection checks.

02 Verified technical data

Board function	MOV transient suppression
Board designation	VA-4 MOV suppression card
Hardware class	Drive/control accessory printed-circuit board

Additional engineering data

Platform family	GE 531X board family
Suppression technology	Metal-oxide varistor network
Service boundary	Verify board revision, terminal markings and host wiring from the installed assembly

Applicability boundary

Permitted evidence confirms the exact board's MOV suppression identity. Unverified electrical ratings are intentionally omitted.

03 Integration and engineering interpretation

Transient suppression

Clamp switching or surge transients in the documented GE host circuit.

Installed-board replacement

Preserve the exact board revision, terminal identity and mounting arrangement.

Drive/control service

Use only where the host documentation identifies this complete 531X board marking.

Fault investigation

Inspect the MOV network and related wiring after a documented surge or repeated protective-device event.

Technical notes

Evidence boundary	The board identity and MOV suppression function are cross-checked; exact electrical ratings remain unspecified.

Replacement focus	Compare board revision, terminal markings, mounting and connected conductors one-for-one.
Acceptance focus	Inspect the suppression network and prove the host protective and functional sequence.

Interpretation boundaries

Product boundary	Apply the listed facts to 531X128HMSADG1 and the documented GE 531X drive/control board family context only.
Interface boundary	Connector, terminal, bus, cable and companion-device assignments must match the installed drawing.
Electrical boundary	Use exact-model values only; system-level ratings remain conditional on the complete installed configuration.
Configuration boundary	Switches, jumpers, addresses, firmware and project settings must be reconciled before energization.
Diagnostic boundary	Interpret indicators and fault states together with measured inputs, outputs and host-system status.
Acceptance rule	Use the approved system baseline and maintenance procedure for the final as-left decision.

04 Diagnostic decisions and support record

What board function is confirmed for 531X128HMSADG1?	Multiple reliable records identify it as a MOV suppression board, also described as a VA-4 MOV suppression card.
Which electrical ratings are established for 531X128HMSADG1?	No exact voltage, current, energy or clamping figures are published here because permitted evidence did not establish them.
Can another 531X MOV board rating be applied to 531X128HMSADG1?	No. Match the exact revision and host circuit; do not transfer neighboring-board ratings.
What should be photographed before removing 531X128HMSADG1?	Capture the full board marking, revision, every terminal label, wire position, mounting point and surrounding host-board identity.
How should the MOV network on 531X128HMSADG1 be inspected?	With the host safely discharged, inspect for cracks, swelling, heat discoloration, contamination and damaged conductors.
What host-system evidence is needed for 531X128HMSADG1?	Use the installed equipment schematic, terminal plan, protective-device history and approved maintenance procedure.
When should 531X128HMSADG1 be withheld from service?	Withhold it if the revision, terminal map, mounting, insulation condition or host protective checks do not agree with the approved record.
How should 531X128HMSADG1 be accepted after replacement?	Complete the approved insulation, wiring and powered host-system checks and record protective-device and fault status.

Verified source

Cross-checked technical records for GE 531X128HMSADG1 / VA-4 MOV suppression card identity

Related product references

Related product	General Electric IS420ESWBH3AX
Related product	General Electric DS200DSPCH1AEA
Related product	General Electric IS220PTURH1A
Related product	General Electric 531X133PRUALG1

Engineering contact

Discuss the exact marking and installed application with Apter Power.
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Acceptance evidence package

Nameplate evidence	Overall and close photographs showing 531X128HMSADG1, revision, approval and serial details where present.
Installation evidence	Views of the rack position, mechanical datum, terminal assignment, cable route and strain relief.
Configuration evidence	Export or screenshots identifying the approved hardware assignment and parameters without exposing credentials.
Baseline evidence	As-found readings with units, test conditions, machine state and the instrument used.

Inspection evidence	Connector, contact, insulation, fastener, contamination and heat-condition observations.
Functional evidence	As-left readings and the controlled input, output or channel response used for acceptance.
Change evidence	Any wiring, setting, firmware or mechanical change linked to its approved work reference.
Release evidence	Technician, reviewer, date, asset reference and the maintenance-record location for traceability.

Controlled acceptance sequence

01 Isolate	Place the monitored machine and channel in the approved maintenance state; prove the required isolation.
02 Photograph	Capture 531X128HMSADG1, the installed datum, connector, route and companion-component markings.
03 Measure	Record mechanical position and the applicable stopped-machine electrical reading before removal.
04 Compare	Check delivered identity, interfaces and evidence against the approved drawing and spare-parts record.
05 Install	Fit without twisting the lead; preserve thread engagement, target clearance, bend radius and strain relief.
06 Set point	Establish the operating gap or datum only with the approved stopped-machine procedure.
07 Prove	Compare local reading, monitor indication and controlled operating response with the accepted baseline.
08 Handover	Record as-left values, photographs, deviations, responsible technician and release approval.

Evidence quality controls

Traceability	Each value is tied to 531X128HMSADG1, the asset location, test state, instrument and date.
Repeatability	The same approved method and comparable operating state are used for before-and-after readings.
Resolution	Recorded precision does not exceed the capability of the instrument or source document.
Reference state	Stopped, energized, loaded and process-running observations are clearly distinguished.
Change control	Every changed setting, connection or mechanical datum has an approved reason and reviewer.
Retention	Evidence remains accessible with the maintenance record for future troubleshooting and replacement review.

Lifecycle status

Platform context	531X128HMSADG1 belongs to the legacy GE 531X drive/control board family.
Verified identity	Multiple reliable records agree on the MOV suppression-board / VA-4 card role.
Replacement boundary	Release depends on exact revision, host circuit, terminal mapping and system-level protection checks.

Available unit details

Offered hardware	One 531X128HMSADG1 MOV suppression printed-circuit board.
Verified function	VA-4 transient-suppression card within the GE 531X hardware family.
Separate scope	Host drive/control assembly, wiring, fuses and related boards are separate unless itemized.

Technical notes

Evidence boundary	The board identity and MOV suppression function are cross-checked; exact electrical ratings remain unspecified.
Replacement focus	Compare board revision, terminal markings, mounting and connected conductors one-for-one.
Acceptance focus	Inspect the suppression network and prove the host protective and functional sequence.