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Data Sheet
August 13, 2026

SAE POWER

SAE Power GA5B-30 Power Line Filter

SAE Power GA5B-30 Chassis Mount EMI Power Line Filter The SAE Power GA5B-30 isaGA-series general-application EMI/RFI line filter, Circuit B, 30 A, chassis-mount case style GA5. CircuitBprovides differential-mode (line-to-line) reduction plus common-mode rejection. Family ratings are 115/250 VAC, 50/60 Hz. Leakage is 0.50 mA max at 115 V 60 Hz and 1.00 mA max at 250 V 50 Hz (line-to-ground). UL 1283 and CSA 22.2 No.8 recognized. GA5 uses 8-32 × 0.675 threaded terminals. 30 A single-phase mains EMI filtering; equipment with both common-mode and differential-mode noise; chassis-mount power entry filtering versus Circuit A (common-mode emphasis). The SAE Power GA5B-30 isaGA-series general-application EMI/RFI line filter, Circuit B, 30 A, chassis-mount case style GA5. CircuitBprovides differential-mode (line-to-line) reduction plus common-mode rejection. Family ratings are 115/250 VAC, 50/60 Hz. Leakage is 0.50 mA max at 115 V 60 Hz and 1.00 mA max at 250 V 50 Hz (line-to-ground). UL 1283 and CSA 22.2 No.8 recognized. GA5 uses 8-32 × 0.675 threaded terminals. 30 A single-phase mains EMI filtering; equipment with both common-mode and differential-mode noise; chassis-mount power entry filtering versus Circuit A (common-mode emphasis).

MODEL SAE Power GA5B-30	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU GA5B-30	LISTING https://aumictechlabs.com/products/ga5b-30-2/

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The SAE Power GA5B-30 is a Circuit A power line filter engineered to attenuate common mode noise and interference on AC power lines, protecting sensitive electronic systems through high-frequency rejection while maintaining low voltage drop. Rated for 30 A across dual voltage inputs, the GA5B-30 delivers insertion loss up to 30 dB at 30 MHz and operates across industrial and laboratory environments with minimal leakage current.Technical Specifications Current Rating: 30 A Voltage Rating: 115/250 VAC, 50/60 Hz Leakage Current: 0.50 mA max at 115 V, 60 Hz; 1.00 mA max at 250 V, 50 Hz (line-to-ground) Voltage Drop: Less than 1% of rated voltage Test Voltage: 2250 VDC line-to-ground; 1450 VDC line-to-line Insulation Resistance: 6000 megaohms at 100 VDC Operating Temperature: −20°C to +45°C nominal; up to +85°C with derating Humidity Rating: 21 days at 40°C and 95% relative humidity Current Overload: 6× rated current for 8 seconds or 140% for 15 minutes Common Mode Insertion Loss: Up to 30 dB at 30 MHz (3 A rating reference) Dimensions: 3.88 × 3.31 × 1.50 inches (98.55 × 84.07 × 38.10 mm) Terminals: 1/4" tab typeKey Features Circuit A topology for common mode interference control Low leakage current design suitable for safety-critical applications Dual voltage operation reduces inventory requirements Compact form factor enables board-level and panel mounting UL 1283 and CSA 22.2 No. 8-M1986 recognized; VDE/DIN compliantTypical Applications Computer systems and peripherals Telecommunications equipment Industrial control systems Medical instrumentation Test and measurement instrumentsCompatibility & Integration The GA5B-30 integrates into standard AC mains circuits requiring common mode EMI suppression. Lower leakage current variants are available with "L" designation prefix for enhanced safety margins.

Features & description

From manufacturer datasheet

Features

• 30 A CircuitBGA series; case GA5 threaded-stud • 115/250 VAC 50/60 Hz • Common-mode 30 A: 6/20/28/42/45/45/48 dB at 0.15-30 MHz • Differential-mode B 30 A: 10/13/30/50/50/40/40 dB at 0.15-30 MHz • Hipot 2250 VDC L-G, 1450 VDC L-L • Overcurrent 6x rated for 8 s

GA5B Characteristics / Specifications

PARAMETER	VALUE
Model	GA5B-30
Manufacturer	SAE Power
Instrument Type	EMI/RFI Power Line Filter
Series	GA Series CircuitBAlias: GA5B-30; GA5B 30
Current Rating	30 A
Circuit	B (common mode plus differential mode)
Case Style	GA5
Voltage Rating	115/250 VAC
Line Frequency	50/60 Hz
Leakage 115 V	0.50 mA maximum at 115 V, 60 Hz line-to-ground
Leakage 250 V	1.00 mA maximum at 250 V, 50 Hz line-to-ground
Test Voltage Line To Ground	2250 VDC
Test Voltage Line To Line	1450 VDC
Overcurrent Test	6 times rated for 8 seconds
Insulation Resistance	6000 megohms / 100 VDC
Agency UL	File LR56661, UL 1283
Agency CSA	File LR49272, CSA 22.2 No.8-M1986
Agency TUV	File R50154
Agency VDE	File 51404
RoHS	family marked RoHS
Dimension A	98.55 mm (3.88 in)
Dimension B	84.07 mm (3.31 in)
Dimension C	38.1 mm (1.50 in)
Dimension D	95.25 mm (3.75 in) mounting
Dimension E	104.9 mm (4.13 in) overall including terminals

PARAMETER	VALUE
GA5 Terminals	8-32 × 0.675 threaded, extend 26.5 mm from chassis
GA5 Mounting Holes	3.96 × 6.35 mm
Common Mode 0.15 MHz	6 dB (30 A)
Common Mode 0.5 MHz	20 dB (30 A)
Common Mode 1 MHz	28 dB (30 A)
Common Mode 5 MHz	42 dB (30 A)
Common Mode 10 To 20 MHz	45 dB (30 A)
Common Mode 30 MHz	48 dB (30 A)
Differential Mode B 0.15 MHz	10 dB (30 A)
Differential Mode B 5 MHz	50 dB (30 A)
Mounting	chassis / flange
Low Leakage Prefix	L prefix family for less than 0.5 mA at 250 VAC 50 Hz (order as LGA... not this standard GA5B-30)
CircuitASibling	GA5A-30 30 A CircuitAsame mechanical envelope Notes Specs from SAE Power GA series datasheet and EMI catalog mechanical table for GA5B-30. Confirm CircuitBversusAand terminal style GA5 before substituting GA5A-30.
Common-mode 30 A	6/20/28/42/45/45/48 dB at 0.15-30 MHz
Differential-mode B 30 A	10/13/30/50/50/40/40 dB at 0.15-30 MHz

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Technical Specifications

PARAMETER	VALUE
Model	GA5B-30
Manufacturer	SAE Power
Instrument Type	EMI/RFI Power Line Filter
Series	GA Series Circuit B
Alias	GA5B-30; GA5B 30
Current Rating	30 A
Circuit	B (common mode plus differential mode)
Case Style	GA5
Voltage Rating	115/250 VAC
Line Frequency	50/60 Hz
Leakage 115 V	0.50 mA maximum at 115 V, 60 Hz line-to-ground
Leakage 250 V	1.00 mA maximum at 250 V, 50 Hz line-to-ground
Test Voltage Line To Ground	2250 VDC
Test Voltage Line To Line	1450 VDC
Overcurrent Test	6 times rated for 8 seconds
Insulation Resistance	6000 megohms / 100 VDC
Agency UL	File LR56661, UL 1283
Agency CSA	File LR49272, CSA 22.2 No.8-M1986
Agency TUV	File R50154
Agency VDE	File 51404
RoHS	family marked RoHS
Dimension A	98.55 mm (3.88 in)
Dimension B	84.07 mm (3.31 in)
Dimension C	38.1 mm (1.50 in)
Dimension D	95.25 mm (3.75 in) mounting
Dimension E	104.9 mm (4.13 in) overall including terminals

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Common Mode 10 To 20 MHz	45 dB (30 A)
Common Mode 30 MHz	48 dB (30 A)
Differential Mode B 0.15 MHz	10 dB (30 A)
Differential Mode B 5 MHz	50 dB (30 A)
Mounting	chassis / flange
Low Leakage Prefix	L prefix family for less than 0.5 mA at 250 VAC 50 Hz (order as LGA... not this standard GA5B-30)
Circuit A Sibling	GA5A-30 30 A Circuit A same mechanical envelope

Specifications

PARAMETER	VALUE
Model	GA5B-30
Manufacturer	SAE Power
Instrument Type	EMI/RFI Power Line Filter
Series	GA Series CircuitBAlias: GA5B-30; GA5B 30
Current Rating	30 A
Circuit	B (common mode plus differential mode)
Case Style	GA5
Voltage Rating	115/250 VAC
Line Frequency	50/60 Hz
Leakage 115 V	0.50 mA maximum at 115 V, 60 Hz line-to-ground
Leakage 250 V	1.00 mA maximum at 250 V, 50 Hz line-to-ground
Test Voltage Line To Ground	2250 VDC
Test Voltage Line To Line	1450 VDC
Overcurrent Test	6 times rated for 8 seconds
Insulation Resistance	6000 megohms / 100 VDC
Agency UL	File LR56661, UL 1283

PARAMETER	VALUE
Agency CSA	File LR49272, CSA 22.2 No.8-M1986
Agency TUV	File R50154
Agency VDE	File 51404
RoHS	family marked RoHS
Dimension A	98.55 mm (3.88 in)
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Common Mode 30 MHz	48 dB (30 A)
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Differential Mode B 5 MHz	50 dB (30 A)
Mounting	chassis / flange
Low Leakage Prefix	L prefix family for less than 0.5 mA at 250 VAC 50 Hz (order as LGA... not this standard GA5B-30)
CircuitASibling	GA5A-30 30 A CircuitAsame mechanical envelope

Notes
Specs from SAE Power GA series datasheet and EMI catalog mechanical table for GA5B-30. Confirm CircuitBversusAand terminal style GA5 before substituting GA5A-30.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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