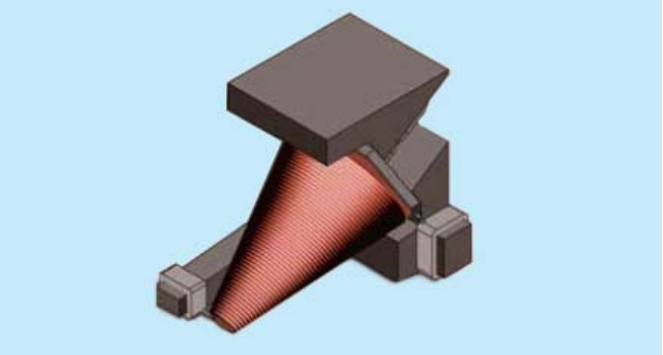
Ultra-Broadband SMT Inductor

GLMR47KAT1A

AVX, the industry leader, in introducing the new GLM Series High Frequency Ultra-Broadband Inductor (UBL). This unique component provides low insertion loss and an excellent match over multiple octaves of frequency spectrum.

The GLM is ideal for ultra-broadband DC decoupling networks and bias tee applications in optical communications systems and equipment using high-speed digital logic.



FEATURES

- Operating Frequency: 9.5 MHz (-3 dB roll-off) through 40+ GHz typ.
- Insertion Loss (shunt mounted: ≤0.5 dB, typ.
- Return Loss (shunt mounted: > 20 dB, typ.
- Operating Temperature Range: -55ºC to +125ºC
- Lead-Free, RoHs Compliant Terminations

ADVANTAGES

- Ultra-Broadband Performance
- Ultra-Low Insertion Loss
- Flat Frequency Response
- Excellent Return Loss Through 40 GHz
- Unit-to-Unit Performance Repeatability
- Rugged Powdered Iron Core

ELECTRICAL SPECIFICATION

- Inductance: 0.47 µH ±10%
- Rated Current (R_{DC} max.): 815 mA*
- Resistance (I_{DC} max.): 0.19 Ω, typ. at +20ºC, 10 mA Current

*Current for 100ºC Temperature rise

Notes:

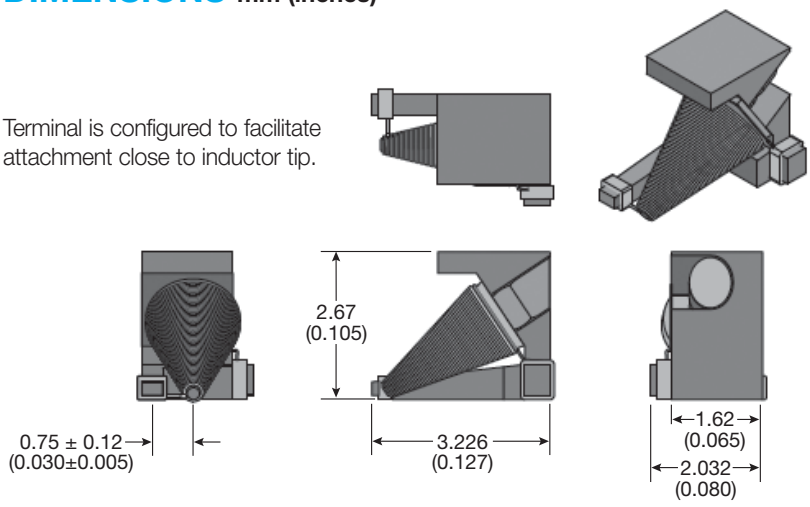
Inductance: measured at 1 MHz, 0.1 Vrms, 0 mA dc with HP4291A impedance analyser

Current Rating: based on a 100ºC temperature rise from a 25ºC ambient

Wire: Copper, plated with gold 20 µ in. ±5 µ in.

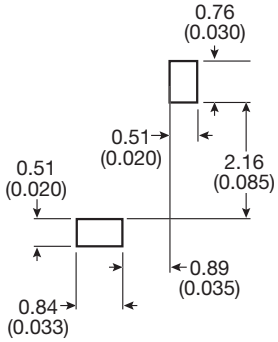
DIMENSIONS mm (inches)

Terminal is configured to facilitate attachment close to inductor tip.



Size	Length (L)	Width (W)	Height (H)	Cu Wire Size (AWG)	Number of Times
M	3.226 (0.127)	2.032 (0.080)	2.670 (0.105)	38	22

RECOMMENDED FOOTPRINT

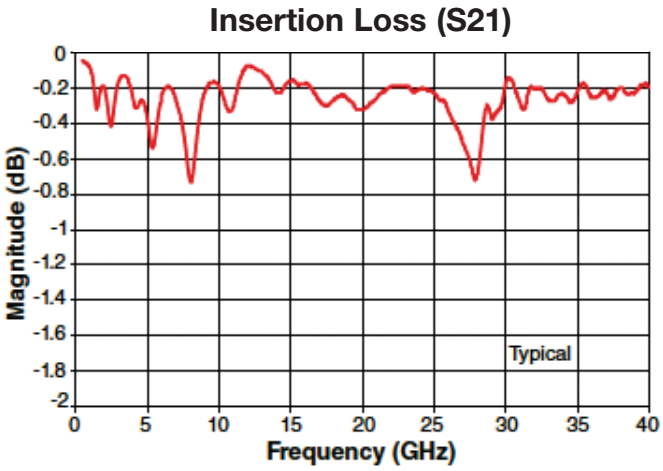


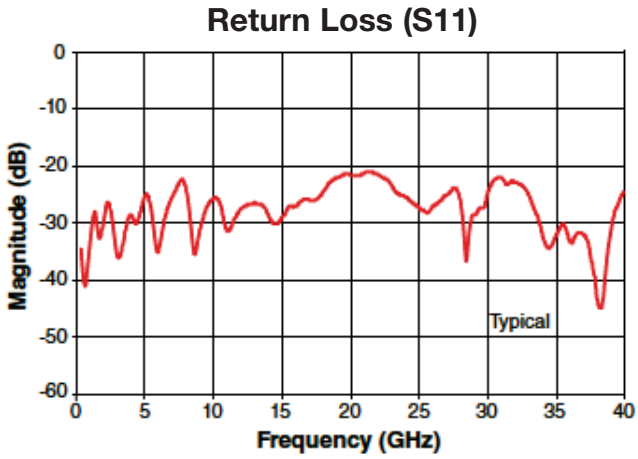
Ultra-Broadband SMT Inductor

GLMR47KAT1A

HOW TO ORDER

GL	M	R47	K	A	T	1A
Series	**Case Size**	**Iductace Code (µH)** 3 significant digits for inductance R = Decimal point	**Inductance Tolerance** ±10%	**Failure Rate**	**Termination** T = Tin Termination	**Packaging** 1A = Tape & Reel



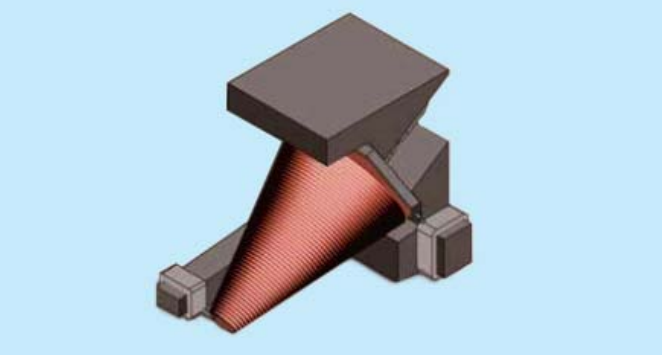


Ultra-Broadband SMT Inductor

GLMR70KAT1A

AVX, the industry leader, in introducing the new GLM Series High Frequency Ultra-Broadband Inductor (UBL). This unique component provides low insertion loss and an excellent match over multiple octaves of frequency spectrum.

The GLM is ideal for ultra-broadband DC decoupling networks and bias tee applications in optical communications systems and equipment using high-speed digital logic.



FEATURES

- Operating Frequency: 6.6 MHz (-3 dB roll-off) through 40+ GHz typ.
- Insertion Loss (shunt mounted: ≤0.5 dB, typ.
- Return Loss (shunt mounted: > 20 dB, typ.
- Operating Temperature Range: -55ºC to +125ºC
- Lead-Free, RoHs Compliant Terminations

ADVANTAGES

- Ultra-Broadband Performance
- Ultra-Low Insertion Loss
- Flat Frequency Response
- Excellent Return Loss Through 40 GHz
- Unit-to-Unit Performance Repeatability
- Rugged Powdered Iron Core

ELECTRICAL SPECIFICATION

- Inductance: 0.70 µH ±10%
- Rated Current (R_{DC} max.): 619 mA*
- Resistance (I_{DC} max.): 0.32 Ω, typ. at +20ºC, 10 mA Current

*Current for 100ºC Temperature rise

Notes:

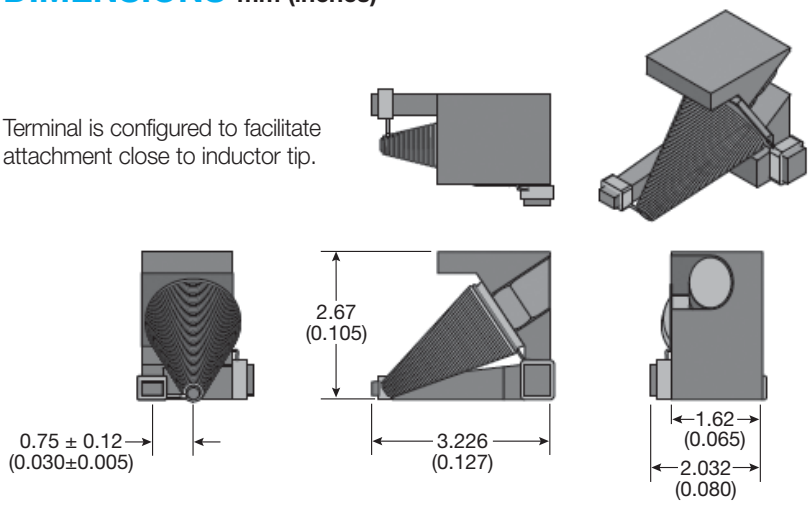
Inductance: measured at 1 MHz, 0.1 Vrms, 0 mA dc with HP4291A impedance analyser

Current Rating: based on a 100ºC temperature rise from a 25ºC ambient

Wire: Copper, plated with gold 20 µ in. ±5 µ in.

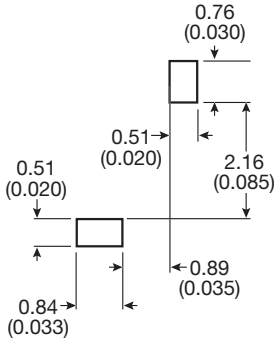
DIMENSIONS mm (inches)

Terminal is configured to facilitate attachment close to inductor tip.



Size	Length (L)	Width (W)	Height (H)	Cu Wire Size (AWG)	Number of Times
M	3.226 (0.127)	2.032 (0.080)	2.670 (0.105)	40	27

RECOMMENDED FOOTPRINT

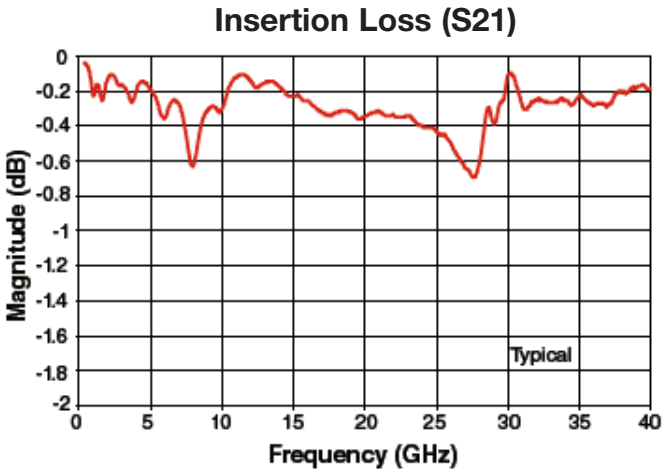


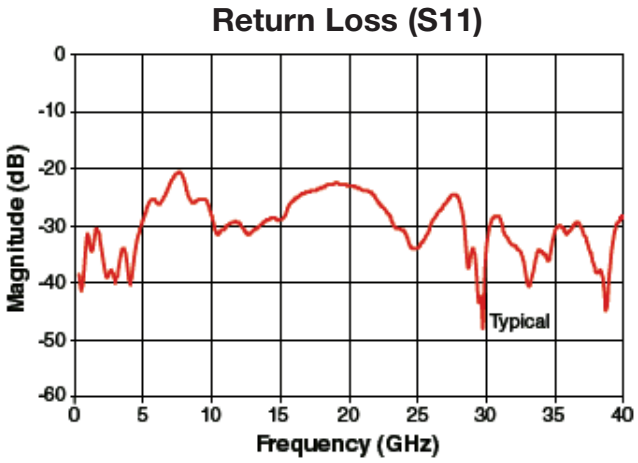
Ultra-Broadband SMT Inductor

GLMR70KAT1A

HOW TO ORDER

GL	M	R70	K	A	T	1A
Series	**Case Size**	**Iductace Code (µH)** 3 significant digits for inductance R = Decimal point	**Inductance Tolerance** ±10%	**Failure Rate**	**Termination** T = Tin Termination	**Packaging** 1A = Tape & Reel



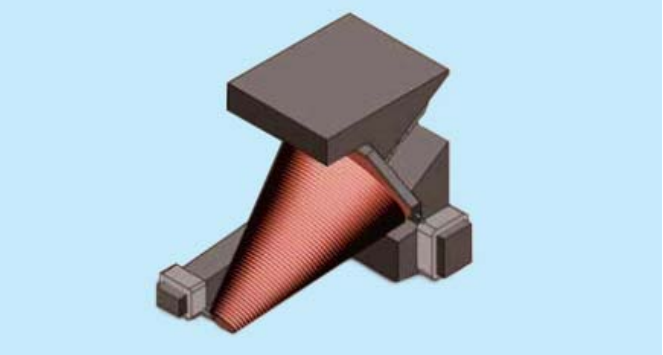


Ultra-Broadband SMT Inductor

GLM1R1KAT1A

AVX, the industry leader, in introducing the new GLM Series High Frequency Ultra-Broadband Inductor (UBL). This unique component provides low insertion loss and an excellent match over multiple octaves of frequency spectrum.

The GLM is ideal for ultra-broadband DC decoupling networks and bias tee applications in optical communications systems and equipment using high-speed digital logic.



FEATURES

- Operating Frequency: 3.3 MHz (-3 dB roll-off) through 40+ GHz typ.
- Insertion Loss (shunt mounted: ≤0.6 dB, typ.
- Return Loss (shunt mounted: > 22 dB, typ.
- Operating Temperature Range: -55ºC to +125ºC
- Lead-Free, RoHs Compliant Terminations

ADVANTAGES

- Ultra-Broadband Performance
- Ultra-Low Insertion Loss
- Flat Frequency Response
- Excellent Return Loss Through 40 GHz
- Unit-to-Unit Performance Repeatability
- Rugged Powdered Iron Core

ELECTRICAL SPECIFICATION

- Inductance: 1.10 µH ±10%
- Rated Current (R_{DC} max.): 438 mA*
- Resistance (I_{DC} max.): 0.64 Ω, typ. at +20ºC, 10 mA Current

*Current for 100ºC Temperature rise

Notes:

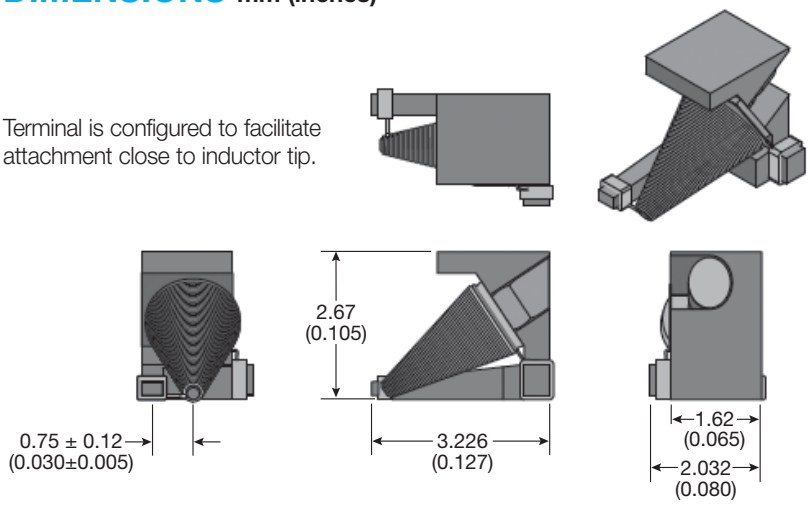
Inductance: measured at 1 MHz, 0.1 Vrms, 0 mA dc with HP4291A impedance analyser

Current Rating: based on a 100ºC temperature rise from a 25ºC ambient

Wire: Copper, plated with gold 20 µ in. ±5 µ in.

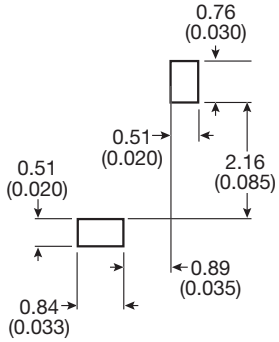
DIMENSIONS mm (inches)

Terminal is configured to facilitate attachment close to inductor tip.



Size	Length (L)	Width (W)	Height (H)	Cu Wire Size (AWG)	Number of Times
M	3.226 (0.127)	2.032 (0.080)	2.670 (0.105)	42	34

RECOMMENDED FOOTPRINT

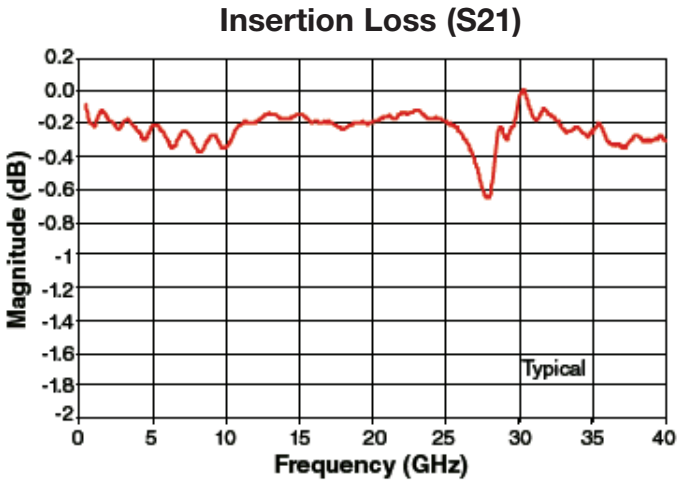


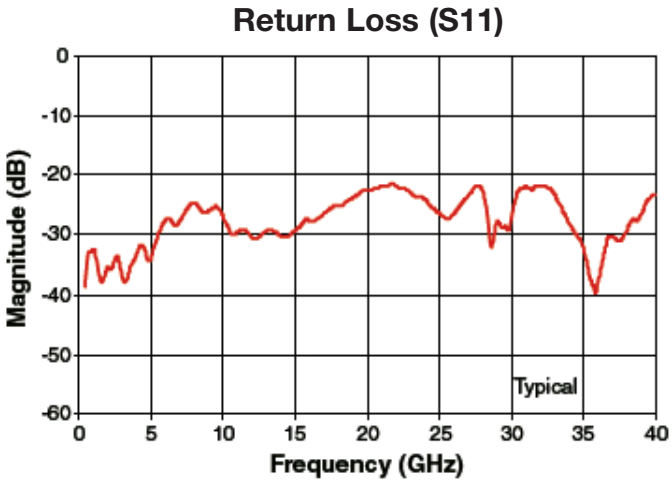
Ultra-Broadband SMT Inductor

GLM1R1KAT1A

HOW TO ORDER

GL	M	1R1	K	A	T	1A
Series	**Case Size**	**Iductace Code (µH)** 3 significant digits for inductance R = Decimal point	**Inductance Tolerance** ±10%	**Failure Rate**	**Termination** T = Tin Termination	**Packaging** 1A = Tape & Reel



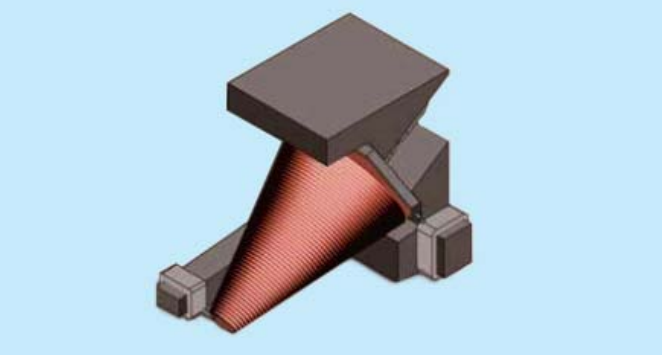


Ultra-Broadband SMT Inductor

GLM2R0KAT1A

AVX, the industry leader, in introducing the new GLM Series High Frequency Ultra-Broadband Inductor (UBL). This unique component provides low insertion loss and an excellent match over multiple octaves of frequency spectrum.

The GLM is ideal for ultra-broadband DC decoupling networks and bias tee applications in optical communications systems and equipment using high-speed digital logic.



FEATURES

- Operating Frequency: 2.1 MHz (-3 dB roll-off) through 40+ GHz typ.
- Insertion Loss (shunt mounted: ≤0.4 dB, typ.
- Return Loss (shunt mounted: > 20 dB, typ.
- Operating Temperature Range: -55ºC to +125ºC
- Lead-Free, RoHs Compliant Terminations

ADVANTAGES

- Ultra-Broadband Performance
- Ultra-Low Insertion Loss
- Flat Frequency Response
- Excellent Return Loss Through 40 GHz
- Unit-to-Unit Performance Repeatability
- Rugged Powdered Iron Core

ELECTRICAL SPECIFICATION

- Inductance: 2.00 µH ±10%
- Rated Current (R_{DC} max.): 277 mA*
- Resistance (I_{DC} max.): 1.60 Ω, typ. at +20ºC, 10 mA Current

*Current for 100ºC Temperature rise

Notes:

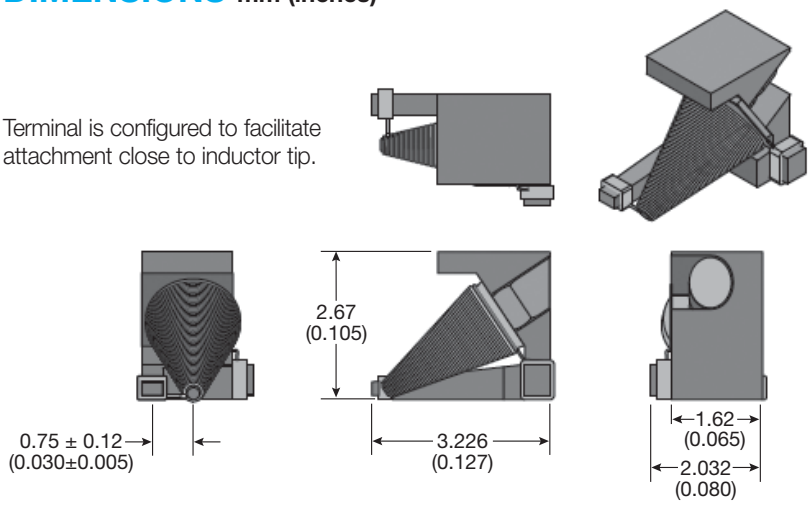
Inductance: measured at 1 MHz, 0.1 Vrms, 0 mA dc with HP4291A impedance analyser

Current Rating: based on a 100ºC temperature rise from a 25ºC ambient

Wire: Copper, plated with gold 20 µ in. ±5 µ in.

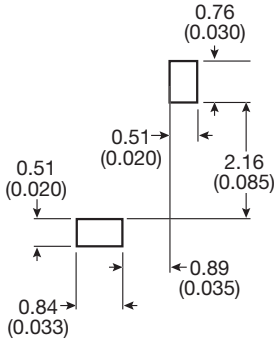
DIMENSIONS mm (inches)

Terminal is configured to facilitate attachment close to inductor tip.



Size	Length (L)	Width (W)	Height (H)	Cu Wire Size (AWG)	Number of Times
M	3.226 (0.127)	2.032 (0.080)	2.670 (0.105)	44	46

RECOMMENDED FOOTPRINT



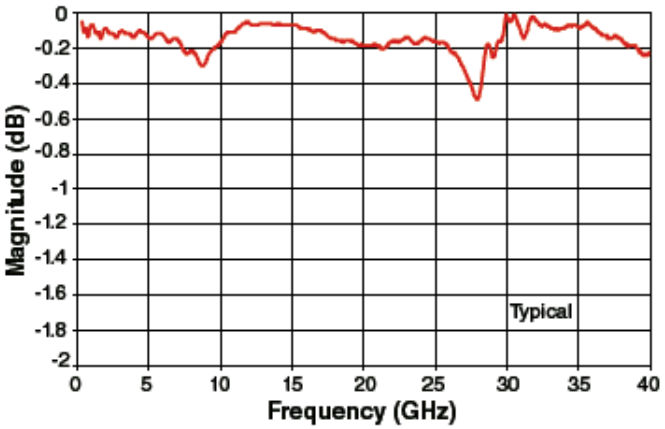
Ultra-Broadband SMT Inductor

GLM2R0KAT1A

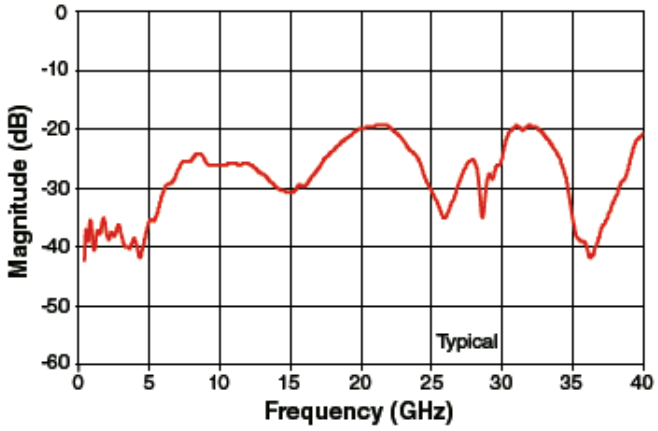
HOW TO ORDER

GL	M	2R0	K	A	T	1A
Series	**Case Size**	**Iductace Code (µH)** 3 significant digits for inductance R = Decimal point	**Inductance Tolerance** ±10%	**Failure Rate**	**Termination** T = Tin Termination	**Packaging** 1A = Tape & Reel

Insertion Loss (S21)



Return Loss (S11)

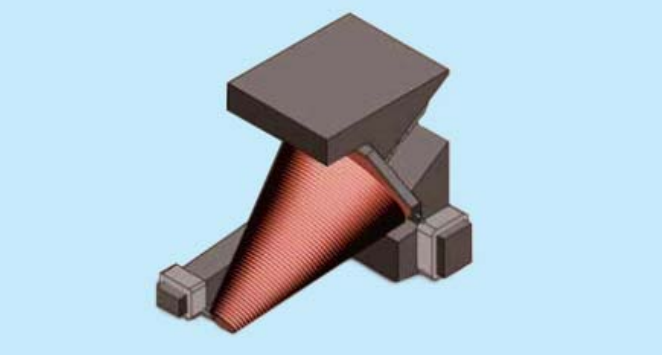


Ultra-Broadband SMT Inductor

GLM3R8KAT1A

AVX, the industry leader, in introducing the new GLM Series High Frequency Ultra-Broadband Inductor (UBL). This unique component provides low insertion loss and an excellent match over multiple octaves of frequency spectrum.

The GLM is ideal for ultra-broadband DC decoupling networks and bias tee applications in optical communications systems and equipment using high-speed digital logic.



FEATURES

- Operating Frequency:
  1.1 MHz (-3 dB roll-off) through 40+ GHz typ.
- Insertion Loss (shunt mounted: ≤0.4 dB, typ.
- Return Loss (shunt mounted: > 25 dB, typ.
- Operating Temperature Range: -55ºC to +125ºC
- Lead-Free, RoHs Compliant Terminations

ADVANTAGES

- Ultra-Broadband Performance
- Ultra-Low Insertion Loss
- Flat Frequency Response
- Excellent Return Loss Through 40 GHz
- Unit-to-Unit Performance Repeatability
- Rugged Powdered Iron Core

ELECTRICAL SPECIFICATION

- Inductance: 3.8 µH ±10%
- Rated Current (R_{DC} max.): 182 mA*
- Resistance (I_{DC} max.): 3.70 Ω, typ. at +20ºC, 10 mA Current

*Current for 100ºC Temperature rise

Notes:

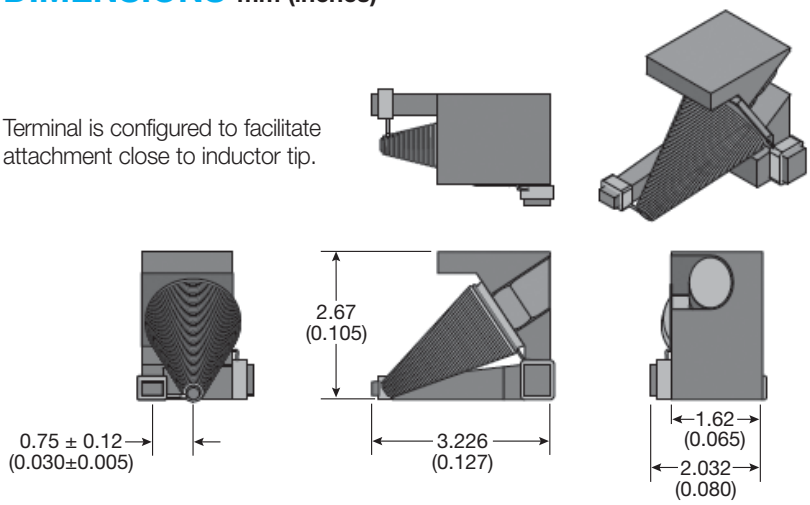
Inductance: measured at 1 MHz, 0.1 Vrms, 0 mA dc with HP4291A impedance analyser

Current Rating: based on a 100ºC temperature rise from a 25ºC ambient

Wire: Copper, plated with gold 20 µ in. ±5 µ in.

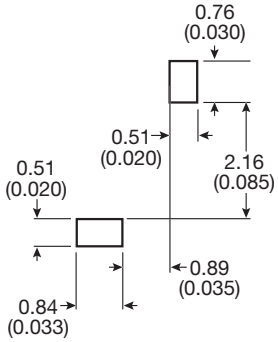
DIMENSIONS mm (inches)

Terminal is configured to facilitate attachment close to inductor tip.



Size	Length (L)	Width (W)	Height (H)	Cu Wire Size (AWG)	Number of Times
M	3.226 (0.127)	2.032 (0.080)	2.670 (0.105)	47	60

RECOMMENDED FOOTPRINT



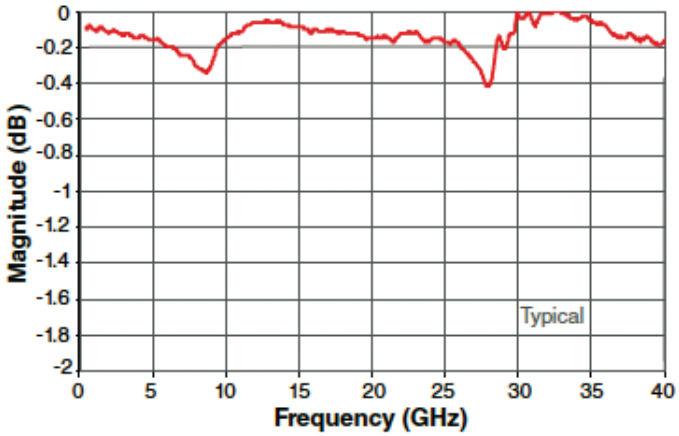
Ultra-Broadband SMT Inductor

GLM3R8KAT1A

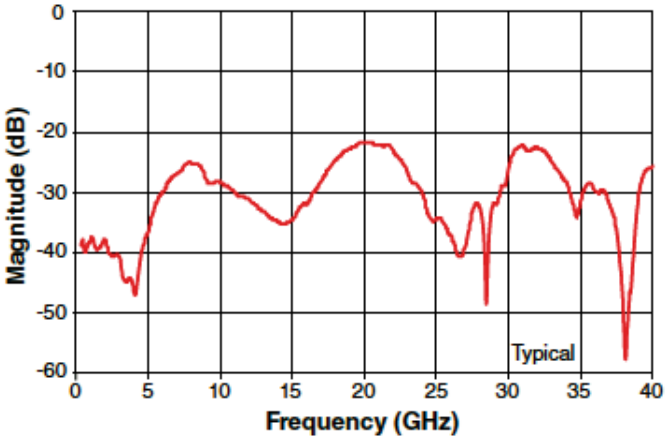
HOW TO ORDER

GL	M	3R8	K	A	T	1A
Series	**Case Size**	**Iductace Code (µH)** 3 significant digits for inductance R = Decimal point	**Inductance Tolerance** ±10%	**Failure Rate**	**Termination** T = Tin Termination	**Packaging** 1A = Tape & Reel

Insertion Loss (S21)



Return Loss (S11)

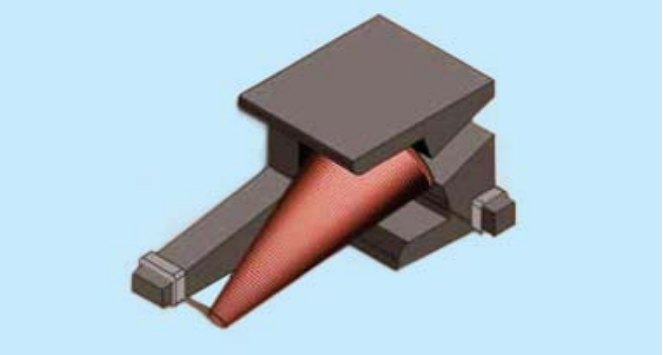


Ultra-Broadband SMT Inductor

GLN1R47KAT1A

AVX, the industry leader, in introducing the new GLN Series High Frequency Ultra-Broadband Inductor (UBL). This unique component provides low insertion loss and an excellent match over multiple octaves of frequency spectrum.

The GLN is ideal for ultra-broadband DC decoupling networks and bias tee applications in optical communications systems and equipment using high-speed digital logic.



FEATURES

- Operating Frequency:
  2.8 MHz (-3 dB roll-off) through 40+ GHz typ.
- Insertion Loss (shunt mounted: ≤0.4 dB, typ.
- Return Loss (shunt mounted: > 17 dB, typ.
- Operating Temperature Range: -55ºC to +125ºC
- Lead-Free, RoHs Compliant Terminations

ADVANTAGES

- Ultra-Broadband Performance
- Ultra-Low Insertion Loss
- Flat Frequency Response
- Excellent Return Loss Through 40 GHz
- Unit-to-Unit Performance Repeatability
- Rugged Powdered Iron Core

ELECTRICAL SPECIFICATION

- Inductance: 1.47 µH ±10%
- Rated Current (R_{DC} max.): 694 mA*
- Resistance (I_{DC} max.): 0.33 Ω, typ. at +20ºC, 10 mA Current

*Current for 100ºC Temperature rise

Notes:

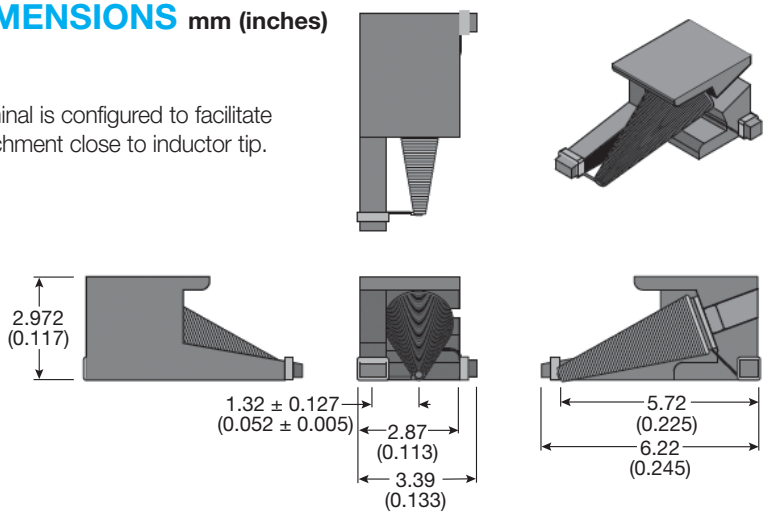
Inductance: measured at 1 MHz, 0.1 Vrms, 0 mA dc with HP4291A impedance analyser

Current Rating: based on a 100ºC temperature rise from a 25ºC ambient

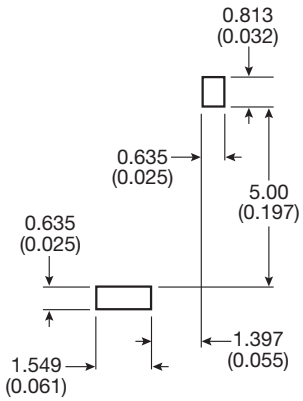
Wire: Copper, plated with gold 20 µ in. ±5 µ in.

DIMENSIONS mm (inches)

Terminal is configured to facilitate attachment close to inductor tip.



RECOMMENDED FOOTPRINT



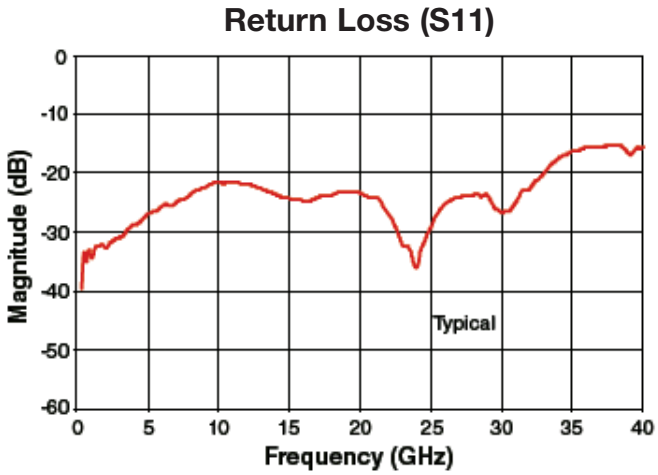
Size	Length (L)	Width (W)	Height (H)	Cu Wire Size (AWG)	Number of Times
N	6.223 (0.245)	3.378 (0.133)	2.972 (0.117)	38	40

Ultra-Broadband SMT Inductor

GLN1R47KAT1A

HOW TO ORDER

GL	N	1R47	K	A	T	1A
Series	**Case Size**	**Iductace Code (µH)** 3 significant digits for inductance R = Decimal point	**Inductance Tolerance** ±10%	**Failure Rate**	**Termination** T = Tin Termination	**Packaging** 1A = Tape & Reel

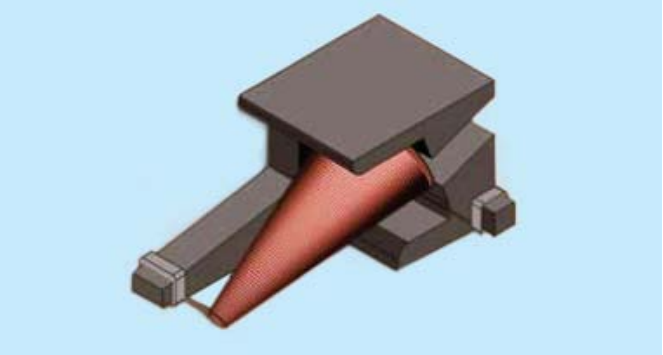


Ultra-Broadband SMT Inductor

GLN2R0KAT1A

AVX, the industry leader, in introducing the new GLN Series High Frequency Ultra-Broadband Inductor (UBL). This unique component provides low insertion loss and an excellent match over multiple octaves of frequency spectrum.

The GLN is ideal for ultra-broadband DC decoupling networks and bias tee applications in optical communications systems and equipment using high-speed digital logic.



FEATURES

- Operating Frequency:
  1.6 MHz (-3 dB roll-off) through 40+ GHz typ.
- Insertion Loss (shunt mounted: ≤0.5 dB, typ.
- Return Loss (shunt mounted: > 17 dB, typ.
- Operating Temperature Range: -55ºC to +125ºC
- Lead-Free, RoHs Compliant Terminations

ADVANTAGES

- Ultra-Broadband Performance
- Ultra-Low Insertion Loss
- Flat Frequency Response
- Excellent Return Loss Through 40 GHz
- Unit-to-Unit Performance Repeatability
- Rugged Powdered Iron Core

ELECTRICAL SPECIFICATION

- Inductance: 2.00 µH ±10%
- Rated Current (R_{DC} max.): 494 mA*
- Resistance (I_{DC} max.): 0.65 Ω, typ. at +20ºC, 10 mA Current

*Current for 100ºC Temperature rise

Notes:

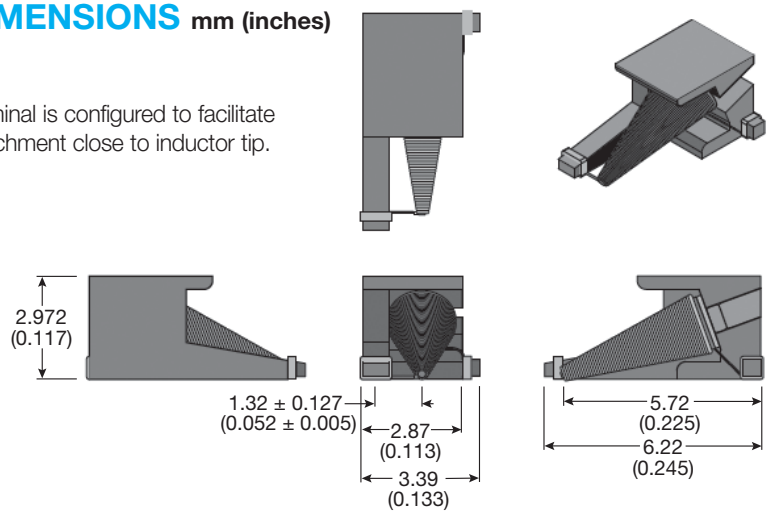
Inductance: measured at 1 MHz, 0.1 Vrms, 0 mA dc with HP4291A impedance analyser

Current Rating: based on a 100ºC temperature rise from a 25ºC ambient

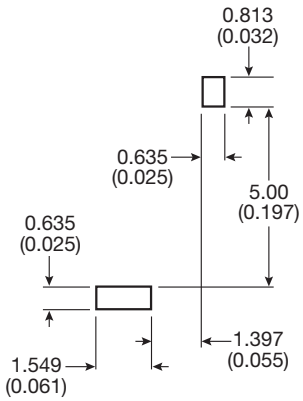
Wire: Copper, plated with gold 20 µ in. ±5 µ in.

DIMENSIONS mm (inches)

Terminal is configured to facilitate attachment close to inductor tip.



RECOMMENDED FOOTPRINT



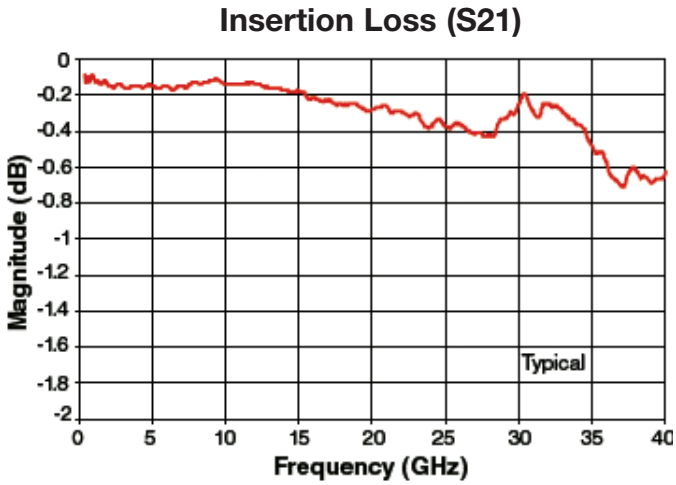
Size	Length (L)	Width (W)	Height (H)	Cu Wire Size (AWG)	Number of Times
N	6.223 (0.245)	3.378 (0.133)	2.972 (0.117)	40	48

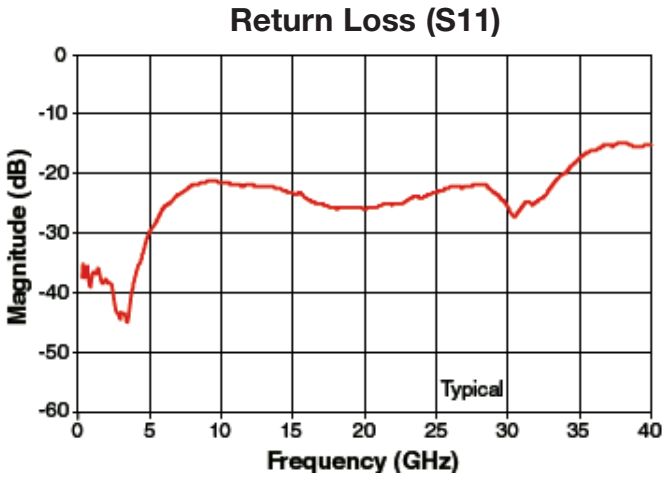
Ultra-Broadband SMT Inductor

GLN2R0KAT1A

HOW TO ORDER

GL	N	2R0	K	A	T	1A
Series	**Case Size**	**Iductace Code (µH)** 3 significant digits for inductance R = Decimal point	**Inductance Tolerance** ±10%	**Failure Rate**	**Termination** T = Tin Termination	**Packaging** 1A = Tape & Reel



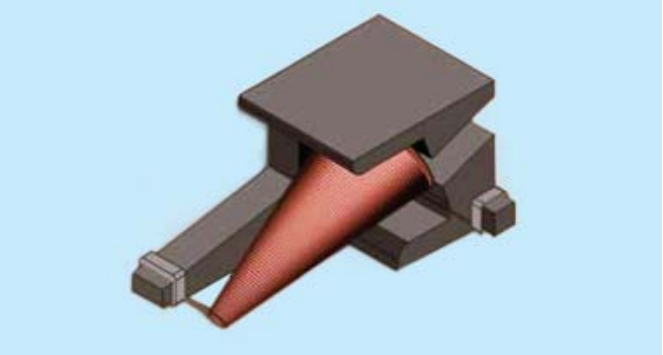


Ultra-Broadband SMT Inductor

GLN3R3KAT1A

AVX, the industry leader, in introducing the new GLN Series High Frequency Ultra-Broadband Inductor (UBL). This unique component provides low insertion loss and an excellent match over multiple octaves of frequency spectrum.

The GLN is ideal for ultra-broadband DC decoupling networks and bias tee applications in optical communications systems and equipment using high-speed digital logic.



FEATURES

- Operating Frequency:
  1.3 MHz (-3 dB roll-off) through 40+ GHz typ.
- Insertion Loss (shunt mounted: ≤0.5 dB, typ.
- Return Loss (shunt mounted: > 17 dB, typ.
- Operating Temperature Range: -55ºC to +125ºC
- Lead-Free, RoHs Compliant Terminations

ADVANTAGES

- Ultra-Broadband Performance
- Ultra-Low Insertion Loss
- Flat Frequency Response
- Excellent Return Loss Through 40 GHz
- Unit-to-Unit Performance Repeatability
- Rugged Powdered Iron Core

ELECTRICAL SPECIFICATION

- Inductance: 3.30 µH ±10%
- Rated Current (R_{DC} max.): 350 mA*
- Resistance (I_{DC} max.): 1.29 Ω, typ. at +20ºC, 10 mA Current

*Current for 100ºC Temperature rise

Notes:

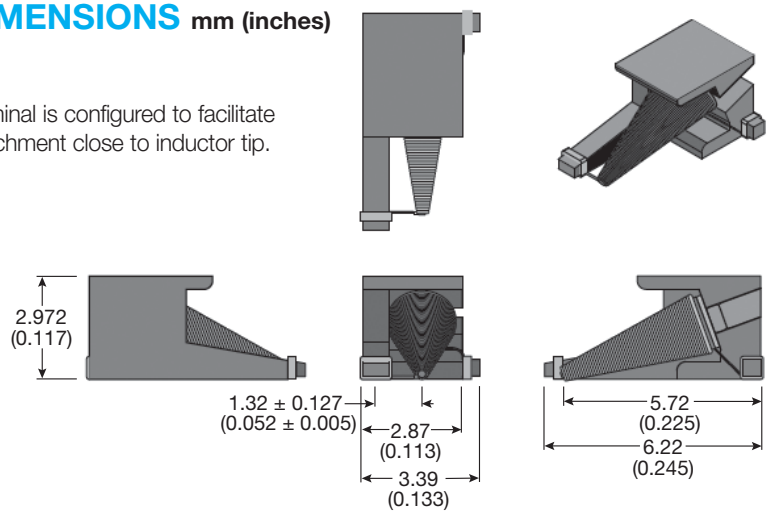
Inductance: measured at 1 MHz, 0.1 Vrms, 0 mA dc with HP4291A impedance analyser

Current Rating: based on a 100ºC temperature rise from a 25ºC ambient

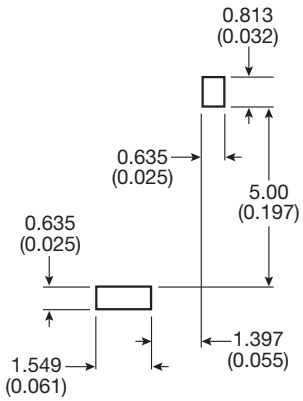
Wire: Copper, plated with gold 20 µ in. ±5 µ in.

DIMENSIONS mm (inches)

Terminal is configured to facilitate attachment close to inductor tip.



RECOMMENDED FOOTPRINT



Size	Length (L)	Width (W)	Height (H)	Cu Wire Size (AWG)	Number of Times
N	6.223 (0.245)	3.378 (0.133)	2.972 (0.117)	42	60

Ultra-Broadband SMT Inductor

GLN3R3KAT1A

HOW TO ORDER

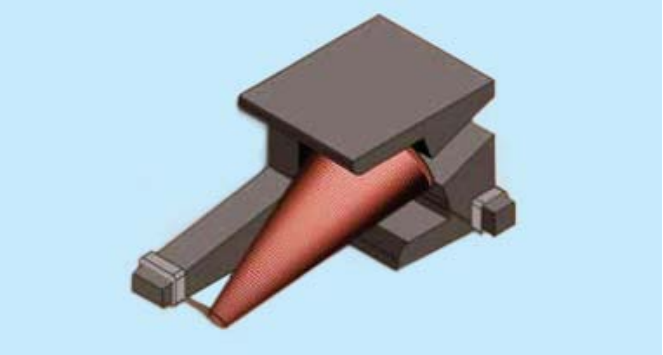
GL	N	3R3	K	A	T	1A
Series	**Case Size**	**Iductace Code (µH)** 3 significant digits for inductance R = Decimal point	**Inductance Tolerance** ±10%	**Failure Rate**	**Termination** T = Tin Termination	**Packaging** 1A = Tape & Reel

Ultra-Broadband SMT Inductor

GLN6R0KAT1A

AVX, the industry leader, in introducing the new GLN Series High Frequency Ultra-Broadband Inductor (UBL). This unique component provides low insertion loss and an excellent match over multiple octaves of frequency spectrum.

The GLN is ideal for ultra-broadband DC decoupling networks and bias tee applications in optical communications systems and equipment using high-speed digital logic.



FEATURES

- Operating Frequency:
  700 KHz (-3 dB roll-off) through 40+ GHz typ.
- Insertion Loss (shunt mounted: ≤0.4 dB, typ.
- Return Loss (shunt mounted: > 48 dB, typ.
- Operating Temperature Range: -55ºC to +125ºC
- Lead-Free, RoHs Compliant Terminations

ADVANTAGES

- Ultra-Broadband Performance
- Ultra-Low Insertion Loss
- Flat Frequency Response
- Excellent Return Loss Through 40 GHz
- Unit-to-Unit Performance Repeatability
- Rugged Powdered Iron Core

ELECTRICAL SPECIFICATION

- Inductance: 6.00 µH, typ.
- Rated Current (R_{DC} max.): 236 mA*
- Resistance (I_{DC} max.): 2.85 Ω, typ. at +20ºC, 10 mA Current

*Current for 100ºC Temperature rise

Notes:

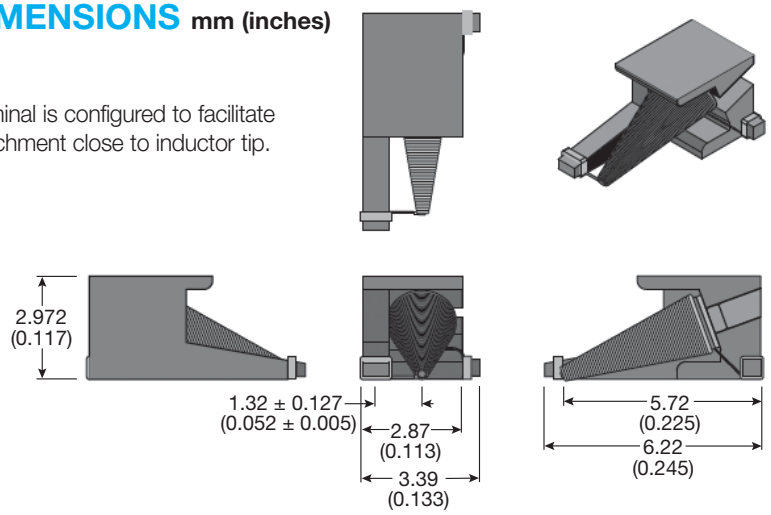
Inductance: measured at 1 MHz, 0.1 Vrms, 0 mA dc with HP4291A impedance analyser

Current Rating: based on a 100ºC temperature rise from a 25ºC ambient

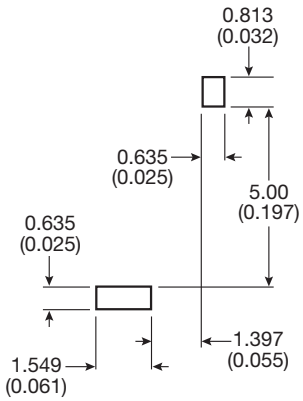
Wire: Copper, plated with gold 20 µ in. ±5 µ in.

DIMENSIONS mm (inches)

Terminal is configured to facilitate attachment close to inductor tip.



RECOMMENDED FOOTPRINT



Size	Length (L)	Width (W)	Height (H)	Cu Wire Size (AWG)	Number of Times
N	6.223 (0.245)	3.378 (0.133)	2.972 (0.117)	44	78

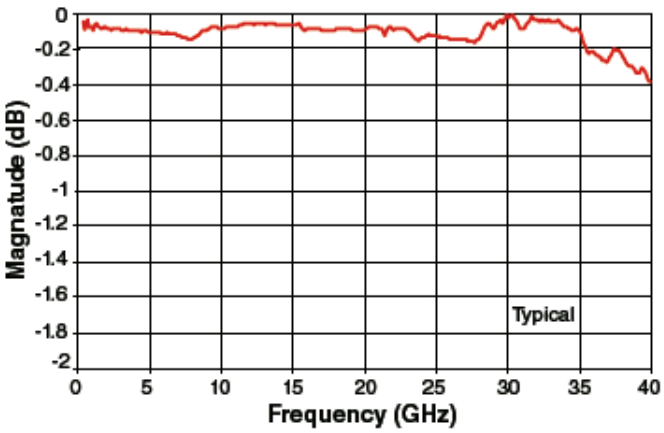
Ultra-Broadband SMT Inductor

GLN6R0KAT1A

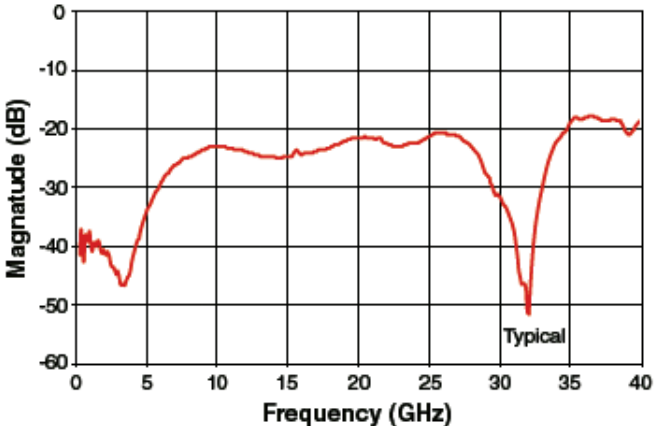
HOW TO ORDER

GL	N	6R0	K	A	T	1A
Series	**Case Size**	**Iductace Code (µH)** 3 significant digits for inductance R = Decimal point	**Inductance Tolerance** ±10%	**Failure Rate**	**Termination** T = Tin Termination	**Packaging** 1A = Tape & Reel

Insertion Loss (S21)



Return Loss (S11)

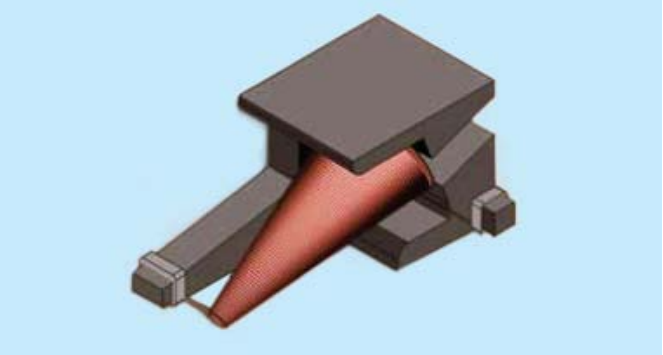


Ultra-Broadband SMT Inductor

GLN10R7KAT1A

AVX, the industry leader, in introducing the new GLN Series High Frequency Ultra-Broadband Inductor (UBL). This unique component provides low insertion loss and an excellent match over multiple octaves of frequency spectrum.

The GLN is ideal for ultra-broadband DC decoupling networks and bias tee applications in optical communications systems and equipment using high-speed digital logic.



FEATURES

- Operating Frequency:
  400 KHz (-3 dB roll-off) through 40+ GHz typ.
- Insertion Loss (shunt mounted: ≤0.4 dB, typ.
- Return Loss (shunt mounted: > 17 dB, typ.
- Operating Temperature Range: -55ºC to +125ºC
- Lead-Free, RoHs Compliant Terminations

ADVANTAGES

- Ultra-Broadband Performance
- Ultra-Low Insertion Loss
- Flat Frequency Response
- Excellent Return Loss Through 40 GHz
- Unit-to-Unit Performance Repeatability
- Rugged Powdered Iron Core

ELECTRICAL SPECIFICATION

- Inductance: 10.7 µH ±10%
- Rated Current (R_{DC} max.): 150 mA*
- Resistance (I_{DC} max.): 7.10 Ω, typ. at +20ºC,
  10 mA Current

*Current for 100ºC Temperature rise

Notes:

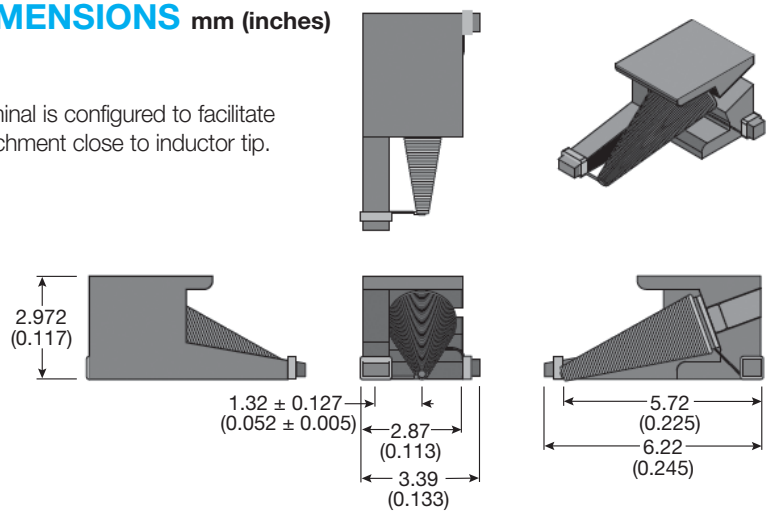
Inductance: measured at 1 MHz, 0.1 Vrms, 0 mA dc with HP4291A impedance analyser

Current Rating: based on a 100ºC temperature rise from a 25ºC ambient

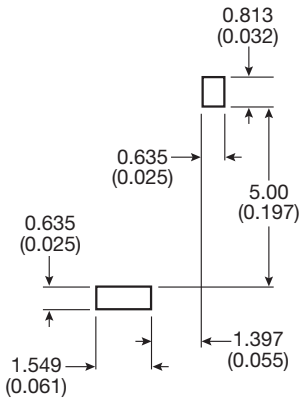
Wire: Copper, plated with gold 20 µ in. ±5 µ in.

DIMENSIONS mm (inches)

Terminal is configured to facilitate attachment close to inductor tip.



RECOMMENDED FOOTPRINT



Size	Length (L)	Width (W)	Height (H)	Cu Wire Size (AWG)	Number of Times
N	6.223 (0.245)	3.378 (0.133)	2.972 (0.117)	47	110

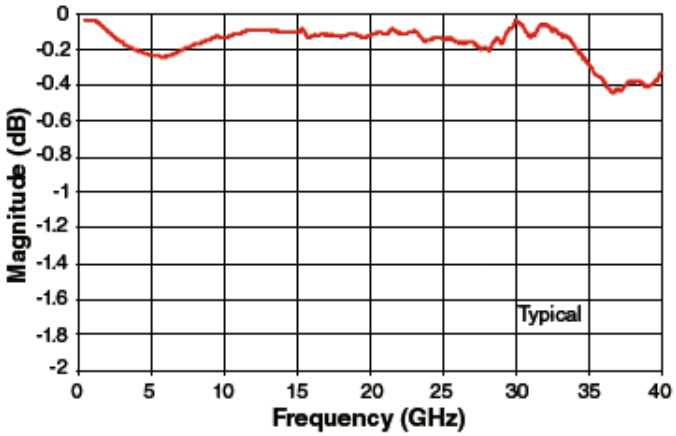
Ultra-Broadband SMT Inductor

GLN10R7KAT1A

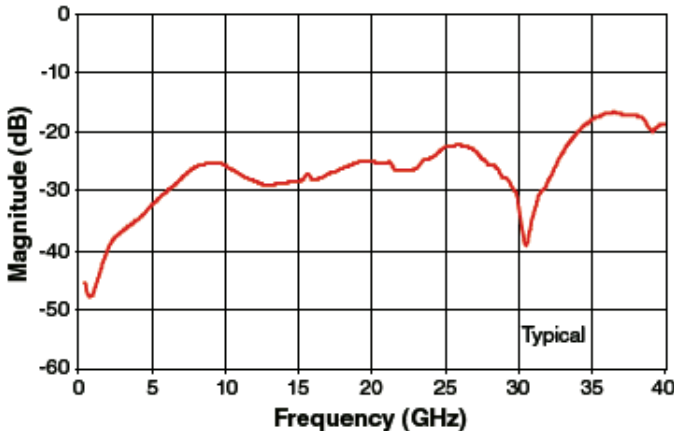
HOW TO ORDER

GL	N	10R7	K	A	T	1A
Series	**Case Size**	**Iductace Code (µH)** 3 significant digits for inductance R = Decimal point	**Inductance Tolerance** ±10%	**Failure Rate**	**Termination** T = Tin Termination	**Packaging** 1A = Tape & Reel

Insertion Loss (S21)



Return Loss (S11)



单击下面可查看定价，库存，交付和生命周期等信息

>>AVX