

CAMI[®] BROADBAND AM ISOCOUPERS

PRODUCT DESCRIPTION

LBA Technology's CAMI^{fi} series of new-concept low, medium, and high power broadband isolators are the modern way to mount additional antennas on hot AM towers. These broadband colocation systems offer a simple, economical solution to take full advantage of existing vertical real estate. The LBA CAMI^{fi} isocoupler family supports any combination of RF carriers from DC to 2700 MHz or more, and conservative RF power levels to 40,000 watts at FM.

New! The CAMI[®] CAT enables two CAT6 POE Ethernet cables to collocate on AM towers.

High Impedance AM isolation is achieved on any specified frequency between 530 - 1710 kHz. Your CAMI^{fi} provides a simple, cost effective way to mount antennas and their coaxial lines on existing directional or nondirectional AM towers without significant changes to the transmitting system. Standard CAMI's handle low to medium AM power. Custom AM multi-frequency and high power systems are also available for special applications.

CAMI^{fi} systems are specifically designed to isolate multiple CAT6 cables and single coaxial cable feeds for WISP broadband, two-way, microwave and STL links, FM translators, low power FM, LPTV and television translators- even for high power FM & TV colocations. Unlike commonly used tuned isocouplers, the same broadband CAMI^{fi} model will fit all of these application frequencies without retuning.

Since CAMI's are very broadband, an FM or TV operator need not change isocouplers, even if they are reallocated. This is important with the current unsettled state of low power and translator allocations. And, with FCC approval of translators for AM daytime stations, your CAMI^{fi} provides a simple, cost effective way to take advantage of an AM translator by mounting your translator antenna on your existing tower. The CAMI^{fi} CAT opens thousands of AM towers for broadband data services.

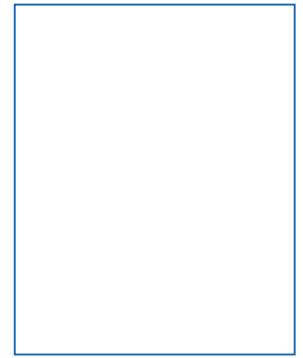
CAMI's also have the advantage of passing AC or DC current to tower top amplifiers and are resistant to weather and lightning. LBA isocouplers are budget-friendly and easy to install from ground level with supplied hardware.

Truly the state-of-the-art, backed by over 40 years of colocation experience.

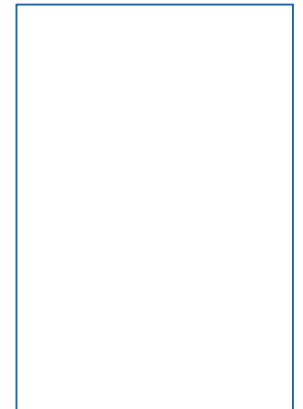
Please contact us at [LBA](#) for a no obligation consultation on your [AM isocoupler and colocation requirements](#).

[SEE SPECIFICATIONS ON BACK](#)

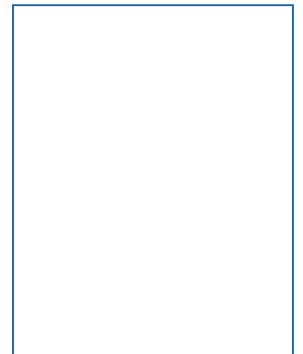
SPVQ



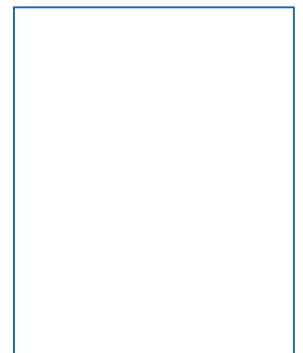
CAMI[®]



CAMI[®] 5000



CAMI[®] \$5



CAMI[®] 10/40,000
(typical)

Domestic Orders
800.855.5500
857.431.1000

International Orders:
800.855.5500
TBMF!MCB@P@PN

PRODUCT DATA

| Specification | CAMI® 500 | CAMI® 1800 | CAMI® 5000 | CAMI® CAT | CAMI® 10,000 | CAMI® 40,000 |
|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Price | discontinued | \$3,390 | \$6,465 | \$5,535 | P.U.R | P.U.R |
| Transmission Path Performance | | | | | | |
| Frequency range (min) | DC - 2700 MHZ | DC - 2700 MHZ | DC - 2700 MHZ | 1 GB ## | DC - 2700 MHZ | DC - 1600 MHZ |
| Impedance | 50 ohms | 50 ohms | 50 ohms | 1000 Base-Tx | 50 ohms | 50 ohms |
| VSWR (typical) | <1.3/1 | <1.25/1 | <1.2/1 | — | <1.2/1 | <1.2/1 |
| Power rating* | | | | | | |
| 100 MHz | 475 watts | 1800 watts | 5100 watts | N/A | 11,000 watts | 40,000 watts |
| 1000 MHz | 125 watts | 550 watts | 1500 watts | N/A | 3000 watts | 10,000 watts |
| 2500 MHz | 75 watts | 325 watts | 900 watts | N/A | 1900 watts | 8,000 watts |
| Insertion loss (typical) | | | | | | |
| 100 MHZ | 0.6 dB | 0.4 dB | 0.2 dB | N/A | 0.2 dB (max) | 0.14 dB (max) |
| 1000 MHZ | 1.4 dB | 1.3 dB | 07 dB | N/A | 07dB (max) | .56 dB (max) |
| 2500 MHZ | 3.4 dB | 2.2 dB | 1.1 dB | N/A | 1.2 dB | .74 dB**(max) |
| Coax connectors | Type N female | 7/16" DIN female | 7/16" DIN female^ | RJ45 (4 CAT6 circuits) | 1 5/8" EIA female | 3 1/8" EIA gas pass |
| DC power passing | Yes (2 amps) | Yes (5 amps) | Yes (10 amps) | 48 vdc@ .5A (POE) | Yes (15 amps) | Yes (20 amps) |
| AM Isolation Performance | | | | | | |
| Frequency range (min) | 530-1710-KHz | 530-1710-KHz | 530-1710-KHz | 530-1710-KHz | 530-1710-KHz | 530-1710-KHz |
| Isolation Frequency*** | Single, customer specified | Single, customer specified | Single, customer specified | Single, customer specified | Single, customer specified | Single, customer specified |
| AM RF impedance | >2000 ohms | >2000 ohms | >2000 ohms | >2000 ohms | >2000 ohms | >2000 ohms |
| AM base volts (typical, tower/frequency dependant) # | 3500 volts peak | 3500 volts peak | 3500 volts peak | 3500 volts peak | 3500 volts peak | 3500 volts peak |
| Physical and Environmental | | | | | | |
| Dimensions (typical) | 24" long, 6" diameter | 30" long, 9" diameter | 20" long, 18" diameter | 20" long, 18" diameter | 56"H x 47"D x 60"W | 72"H x 47"D x 60"W |
| Weight | 13 lbs | 25 lbs | 70 lbs | 70 lbs | 100 lbs | 200 lbs |
| Mounting orientation | Vertical | Horizontal or vertical | Horizontal | Horizontal | Vertical | Vertical |
| Mounting method | FG standoffs | FG standoffs | Tower / post brackets | Tower / post brackets | Pad base | Pad base |
| Temperature | -40 + 50 C | -40 + 50 C | -40 + 50 C | -40 + 50 C | -40 + 50 C | -40 + 50 C |
| Humidity | Weatherproof | Weatherproof | Weatherproof | Weatherproof | Open Frame | Open Frame |

*CW Power rating at 40 C & 1.5 VSWR load.

**Max frequency for CAMI - 40,000 in 1600 MHz for ratings.

***Diplexed and triplexed AM isolation can be accommodated on special orders.

#Higher AM power on special orders.

##Supports 100' CAT6 @10 GB, 240' @1 GB

^ FM power over 3000 watts, 7/8"EIA recommended at extra cost.

Specifications are subject to change without notice.

Revision 2.4, 092023