CAMI® BROADBAND AM ISOCOUPLERS

PRODUCT DESCRIPTION

LBA Technology's CAMI® 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® 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 colocate on AM towers.

High Impedance AM isolation is achieved on any specified frequency between 530 - 1710 kHz. Your CAMI® 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® 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® 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® provides a simple, cost effective way to take advantage of an "AM" translator by mounting your translator antenna on your existing tower. The CAMI® 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.

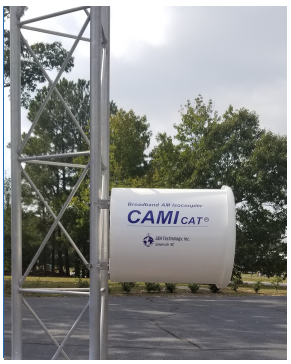
Truly the state-of-the-art, backed by over 40 years of colocation experience.

Please contact us at LBA for a no obligation consultation on your AM isocoupler and colocation requirements.

SEE SPECIFICATIONS ON BACK

CAMI® 1800

CAMI® 5000



CAMI® CAT

CAMI® 10/40,000 (typical)

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PRODUCT DATA

Specification	CAMI® 500	CAMI® 1800	CAMI® 5000	CAMI® CAT	CAMI® 10,000	CAMI® 40,000
Price	discontinued	Starting at $3,550	Starting at $4,675	Starting at $4,225	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 2.5, 122023