

**PROLYN BALUNS**

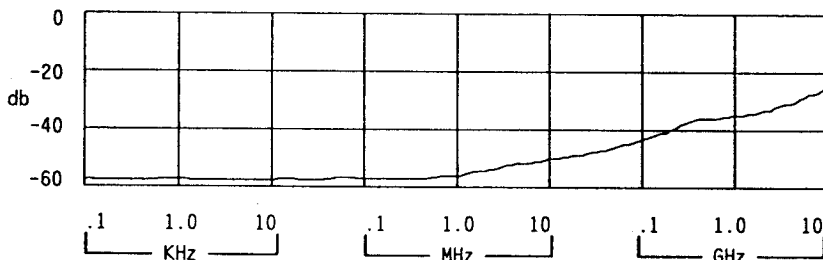
PROLYN baluns are bilateral, high performance, balanced to unbalanced passive converters. All three ports exhibit an excellent TDR (low VSWR) and the two differential ports are well isolated each from the other. These two features are of importance when using the unit with unmatched sources such as D-Dot (open circuit source) or B-Dot (short circuit source) when maximum clear time is desired. Also, the PROLYN baluns can be ordered with optional lead x-ray shielding.

**ELECTRICAL SPECIFICATIONS:**

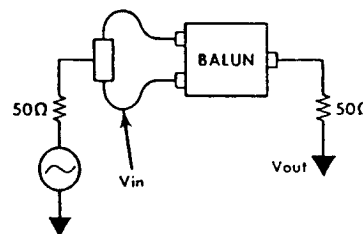
	TYPE							
	A	B	C	D	E	F	G	HV*
Bandwidth (3db)	10 KHz - 250 MHz	15 KHz - 400 MHz	20 KHz - 600 MHz	22 KHz - 1.4 GHz	50 Hz - 150 MHz	200 KHz - 3.5 GHz	250 KHz - 10 GHz	200 KHz - 3 GHz
Risetime (10-90%)	Pulse risetime approximates specified CW bandwidth							
Insertion Loss (Nominal)	6 db	6 db	6 db	6 db	6 db	8 db	8 db	8 db
Propagation Delay ns (Nominal)	3.2	2.2	1.9	1.4	5.3	.6	.6	.6
Max Input Voltage (50 ns Duration)	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	5000 V
Common Mode Rejection Ratio(db) See Graph Below	≥ 32	≥ 32	≥ 30	≥ 30	≥ 36	≥ 28	≥ 20	≥ 28
Port Impedance (3 Ports)	50	50	50	50	50	50	50	50

\* This balun is equipped with type 'HN' connectors only, to accommodate high voltage.

**COMMON MODE MEASUREMENT (Typical)**



$$CMRR = 20 \text{ Log } \frac{V_{out}}{V_{in}}$$



**CONNECTOR OPTIONS**

MODEL No.	INPUT	CONNECTOR TYPES	OUTPUT
BIB-100	SMA (Female)		SMA (Female)
BIB-101	SMA (Male)		SMA (Male)
BIB-110	GR (Twinax, TCC type)		GR (Locking)
BIB-120	Type 'N' (Female)		Type 'N' (Female)
BIB-125	Type 'N' (Female)		SMA (Female)
BIB-130	Twinax (Amphenol - 22950)		Type 'N' (Female)
BIB-135	GR (Twinax, TCC type)		Type 'N' (Female)
BIB-140	Type 'N' (Female)		Type 'N' (Male)
BIB-150	GR (Twinax, TCC type)		GR (Locking)
BIB-160	GR (Twinax, TCC type)		SMA (Female)
BIB-170	SMA (Female)		Type 'N' (Female)
BIB-180	BNC (Female)		BNC (Female)
BIB-190	TNC (Female)		Type 'N' (Female)
BIB-200	HN (Female)		HN (Female)

**HOW TO ORDER:** Example: A 20 KHz to 600 MHz Balun with Type 'N' Female connectors on input and output will have the following model Number: **BIB-120C**

Connector — ↑ Bandwidth Option

**NOTE:** Housing size may vary on bandwidth and connector option.

Special Bandwidth and/or connector options can be manufactured for a small additional charge. Please consult current price list and factory for details.