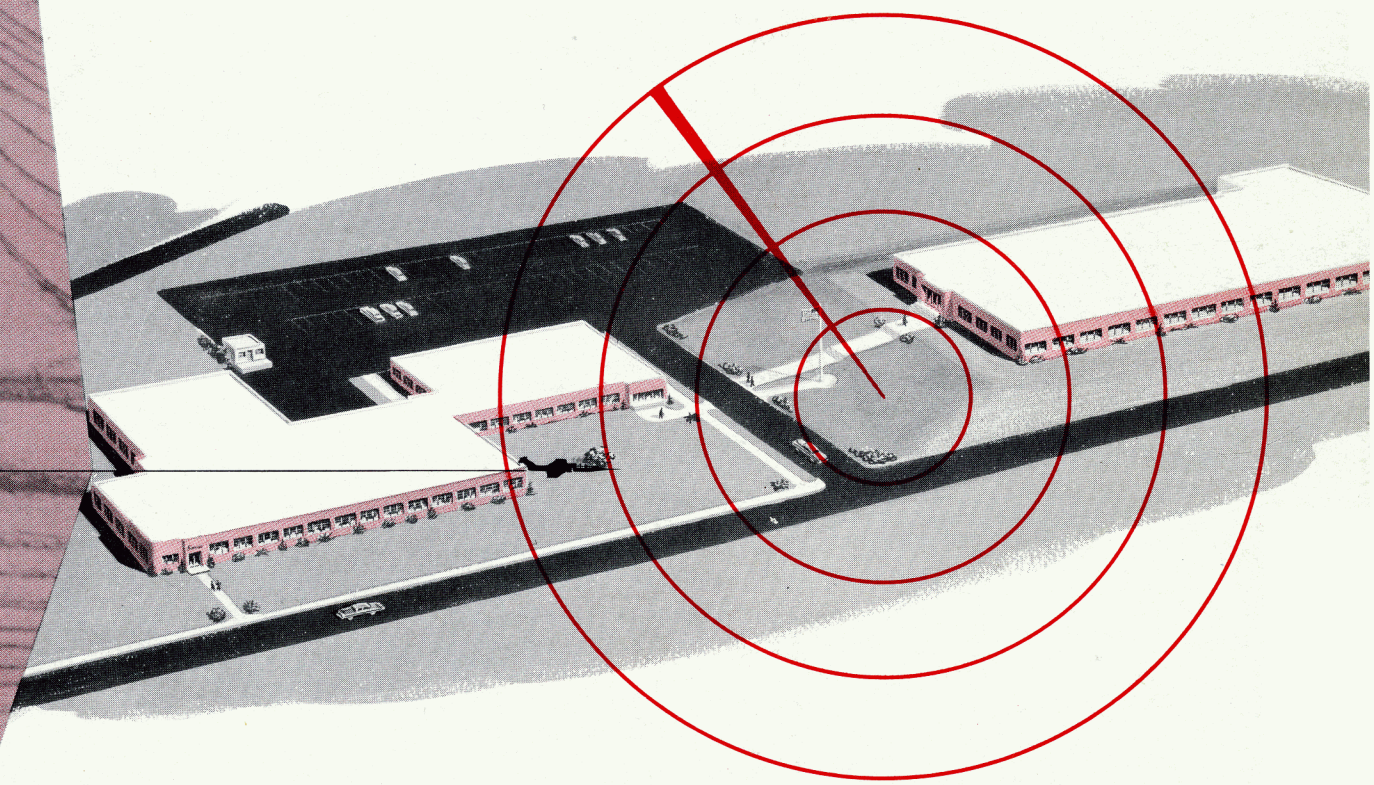
BOM 3

Bomac

MICROWAVE TUBES AND COMPONENTS



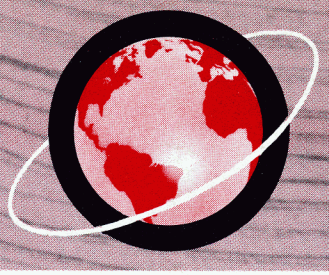
PREFERRED WHEREVER

TR, ATR, Pre-TR, and ATTENUATOR TUBES

Band and Type	Tube Designation	Range	Frequency Center	Power Level (KW Max.)	Description
L TR	1B23	900-1200	1000	450	Cell Type, One Disc, Fixed-Tuned
L TR	1B40	1075-1095	1085	1	Electrodeless Discharge, Fixed-Tuned
L Pre-TR	5939A	1250-1350	1300	550	Gas switching window
L TR	6322/BL25	1215-1355	1285	450	Cell Type, Two Disc, Tunable
L Pre-TR	6605/BL96	1250-1350	1300	2000	Fixed-Tuned
L TR	6632/BL18	1215-1355	1285	2000	Tunable
L TR	6633/BL37	1220-1365	1292	2000	Band Pass, Fixed-Tuned
L TR	BL91		400	6000	Special for Coaxial System
L TR	BL97	1180-1220	1200	3	Tunable
L Pre-TR	BL612	1250-1350	1300	6000	Ceramic Window, BL96
L TR	BL614	900-1200	1000	450	Special 1B23
L TR	BL619	225-425	325	6000	Miniature BL-91
L TR	BL620	900-1200	1000	450	Special 1B23
L TR	BL622		400	6000	Modified BL91
L TR	BL629		400	6000	BL622 less K. A. and tubulation
L TR	BL632	1220-1365	1292	6000	BL37 with Ceramic Input Window
L TR	BL635	1215-1355	1285	450	BL25 with Stainless Tuner Bodies
L TR	BL688	1250-1350			BL37 with modified output flange for pressurization
L ATR	6228/BL38	1215-1335	1285	2000	Low Q, Tuned in ¼ Height Guide
L ATR	BL98	1180-1220	1200	3	Fixed-Tuned
L ATR	BL628		1300	2000	High Q, ATR
L ATR	BL634		1285	2000	Modified BL628
L ATR	BL637		1350	2000	Modified BL628
L ATR	BL640	1215-1335	1300	2000	BL38 tuned in full height guide
L ATR	BL646		1230	2000	BL628 tuned in full height guide High Q window
L ATR	BL647		1340	2000	BL628 High Q window tuned in full height guide
L ATR	BL648		1285	2000	BL628 High Q, tuned in full height guide
L ATR	BL658				BL38 with movable tuning plunger, unexhausted, for low level tuning tests only
L ATR	BL664	1215-1335	1300	2000	BL640 with ceramic window to retain QL of BL640.
L ATR	BL665		1285	2000	Low Q double iris window ½ height guide
S TR	1B27	2700-3400	3050	500	Cell Type, Two Disc, Tunable
S Pre-Tr	1B38	2650-2950	2800	750	Band Pass, Fixed-Tuned
S Pre-TR	1B54	3300-3700	3550	750	Band Pass, Fixed-Tuned
S TR	1B55	3360-3740	3550	1000	Band Pass, Fixed-Tuned
S TR	1B58	2600-3000	2800	750	Band Pass, Fixed-Tuned
S TR	1B62	2700-3300	3000	350	(721B) Slow Recovery Time
S TR	721B	2700-3300	3000	350	Cell Type, Two Disc, Fixed-Tuned
S TR	5853	2900-3200	3050	750	Band Pass, Fixed-Tuned
S TR	5927	3100-3500	3300	750	Band Pass, Fixed-Tuned
S TR	6117	2600-3000	2800	750	Band Pass, Fixed-Tuned
S TR	6635/BL57	2390-2710	2700	5	Integral Cavity, Tunable
S TR	6637/BL31	2700-3400	3050	500	Ruggedized 1B27, No Tuner Knob
S TR	6638/BL99	2700-3400	3050	500	BL31 with Special Fill for ,Positive KA Operation
S TR	BL8	2700-3400	3050	500	Cell Type, Two Disc, Tunable, High Interaction
S TR	BL602	2770-3000	2885	5	Integral Cavity, Tunable
S TR	BL603	2600-3000	2800	1000	1B58 with High Q Windows
S TR	BL654		3400		BL601 electrical characteristics
S TR	BL670	2600-3000	2800	10	1B58 Modified electrically
S TR	BL683		2800	1 meg.	TR encapsulated window construction 1200 watts average power. 1B56 prototype.
S TR	BL57				Refer to 6635
S ATR	1B44	2700-2800	2750	750	Fixed-Tuned
S ATR	1B52	3550-3700	3625	750	Fixed-Tuned
S ATR	1B53	3400-3550	3479	750	Fixed Tuned
S ATR	1B56	2800-2900	2850	750	Fixed-Tuned
S ATR	1B57	3250-3400	3325	750	Fixed-Tuned
S ATR	5792	2900-3000	2950	750	Fixed-Tuned
S ATR	5793	3000-3100	3050	750	Fixed-Tuned
S ATR	5921	3150-3250	3200	750	Fixed-Tuned
S ATR	5922	3350-3450	3400	750	Fixed-Tuned
S ATR	6024	2650-2950	2800	750	Fixed-Tuned
S ATR	BL40	2800-2900	2850	750	(1B56) Fixed-Tuned, 15μ sec R. T.
S ATR	BL41	2700-2800	2750	750	(1B44) Fixed-Tuned, 15μ sec R. T.
S ATR	BL623		2850		Fixed-Tuned, High Q, 1B56 Body BL603 Window
S ATR	BL681	2800			A BL660 with Ceramic Window

TR, ATR, Pre-TR, and ATTENUATOR TUBES

Band and Type	Tube Designation	Range	Frequency Center	Power Level (KW Max.)	Description
S ATR	BL630		2850		Fixed-Tuned, 1B56 Body, ¼" High Window
S ATR	BL633		2800		(BL623) Tuned at 2800 Mc.
S ATR	BL642		2800		BL633 Construction
S ATR	BL660		2800		1B56 with Fast Recovery Time
S ATR	BL672		2950	1000	A5792 with Ceramic Window
S ATR	BL673		3050	1000	A5793 with Ceramic Window
S ATR	BL681		2800	1000	BL660 with Ceramic Window
S ATR	BL689		2800	750	No Gas Fill low Level Only
C TR	5865/TR361	5395-5905	5650	300	Band Pass, Fixed-Tuned
C TR	5925/TR331	5200-5530	5365	1000	Band Pass, Fixed-Tuned
C TR	6568/BL28	5395-5905	5650	3000	Band Pass, Fixed-Tuned
C TR	6639/BL46	5540-5560	5550	100	Tunable High Q, Integral Cavity
C TR	BL88	5370-5430	5400	100	Complete Duplexer, Integral TR and ATR
C TR	BL89	5395-5905	5650	300	Fast R. T. 3μ sec at 3KW
C TR	BL605	5370-5420	5400	100	Special Input Flange Seat
C TR	6624	5300-5500	5400	80	Three Element TR
C TR	6906/BL643	5395-5905	5650	300	5865 with Phase Control
C TR	BL653	5350-5450	5400	100	Fixed Tuned Integral Cavity TR Tube
X TR	6795	8490-9578	9000	100	Miniature 1B63A, reversible Contact
X TR	BL685	8500-9600	9050	40	6378 with Special Fill
X ATR	6890/BL650	9000-9600	9300	30	6396 Prototype for Low Power and High Temperature Operation
C ATR	6022/ATR332	5280-5450	5365	1000	Fixed-Tuned
C ATR	6081/ATR408		5640	300	Fixed-Tuned
C ATR	6455/BL61		5640	300	Fixed-Tuned, Contact Mount Flange
C ATR	6591	5400	5400	300	Contact Mount, Flange similar to 6081
C ATR	BL52	5435	5435	300	Fixed-Tuned
C ATR	BL83	5280	5280	300	Fixed-Tuned, Contact Mount
C ATR	BL606	5370-5430	5400	100	Special Mounting Flange
X TR	1B24A	8490-9600	9375	100	Integral Cavity, Tunable
X TR	1B63A	8490-9578	9000	200	Band Pass, Fixed-Tuned
X TR	1B63B	8490-9578	9000	200	1000 Hour, 1B63A
X TR	724B	8541-9862	9300	75	Cell Type, Two Disc, Fixed-Tuned
X TR	5863	8490-9560	9000	1000	Band Pass for RG51/U Guide
X TR	6035	8490-9578	9000	200	Band Pass, Fixed-Tuned, Special Mechanical Dimensions
X TR	6164	8490-9560	9000	1000	Controlled Phase Shift
X TR	6232/TR427	8490-9560	9000	200	1B63A for RG5/U Guide
X TR	6368	8490-9578	9000	1000	Band Pass with 1B63A Flanges
X TR	6378/BL62	8490-9600	9375	100	Miniaturized 1B24A
X TR	6644/BL95	8490-9578	9000	100	1.5μ sec R. T.
X TR	6645/BL95H	8490-9578	9000	100	6644/BL95 with Heater
X TR	BL9	8700-8900	8800	10	Fast Recovery Time
X TR	BL10	9285-9335	9310	750	Crossed Guide Duplexer
X TR	BL17	9100-9500	9300	50	Integral Cavity, Tunable
X TR	BL20	8490-9600	9000	30	Side Arm Ignitor, Tunable
X TR	BL22	8490-9600	9375	30	Special Auxiliary Reservoir within Tube Envelope
X TR	BL29	9300-9450	9375	100	Crossed Guide Duplexer
X TR	BL32	9200-9500	9375	30	Special 1B24A
X TR	BL39	9225-9375	9300	50	Special 1B63A
X TR	BL44	8490-9578	9000	200	(1B63A) Slow R. T.
X TR	BL47	9300-9450	9375	100	(BL29) Beacon Application
X TR	BL51	10000-10250	10250	100	Integral Cavity, Tunable
X TR	BL79	8490-9600	9375	100	6378 Special Temperature Compensation
X TR	BL80	8490-9578	9000	200	1B36A with Tapped Holes on Input
X TR	BL82	8490-9560	9000	1000	5863 with Full RG51/U Flanges
X TR	BL611	8490-9578	9000	200	1B63A with Heater
X ATR	1B35A	9000-9600	9300	250	Fixed-Tuned
X ATR	1B37A	8600-9050	8750	250	Fixed-Tuned
X ATR	5864/ATR321	9000-9600	9375	500	Fixed-Tuned for RG51/U Guide
X ATR	5883	8650-8950	8800	250	Fixed-Tuned
X ATR	6033	9000-9600	9300	250	1B35A Mounting Flange
X ATR	6034	8600-9050	8750	250	1B37A Mounting Flange
X ATR	6162/ATR388	8750-9410	9080	250	Fixed-Tuned
X ATR	6163	8850-9250	9050	250	Fixed-Tuned
X ATR	6214	9000-9600	9300	250	ATR with Ignitor
X ATR	6276	9000-9600	9280	250	1B35A New Mount
X ATR	6284	8600-9050	8750	250	1B37A New Mount
X ATR	6304/BL43	9000-9600	9300	250	1B35A Special Flange
X ATR	6369	8600-9050	8750	250	1B37A Miniaturized
X ATR	6393/BL68	9000-9600	9300	250	1B35A Miniaturized
X ATR	6396	9000-9600	9300	250	6393/BL68 for Half Height Guide

RADAR SERVES . . .  . . .

TR, ATR, Pre-TR, and ATTENUATOR TUBES

Band and Type	Tube Designation	Range	Frequency Center	Power Level (KW Max.)	Description
X ATR	6629/BL54	8650-8950	8800	250	6304/BL43 for RG51/U Guide
X ATR	6630/BL55	9000-9600	9375	500	6304/BL43 for RG51/U Guide
X ATR	6631/BL94	8600-9050	8750	250	1B37A with Ignitor, for Beacon Use
X ATR	BL45	9375±1Mc	9375	250	Fixed-Tuned
X ATR	BL49	9430	9430	250	Special 1B35A
X ATR	BL69	8650-8950	8800	250	5883 Miniaturized
X ATR	BL70	9000-9600	9300	500	Miniaturized for RG51/U Guide
X ATR	BL72	9600	9600	250	1B35A Outline
X ATR	BL73	9500	9500	250	1B35A Outline
X ATR	BL74	9550	9550	250	1B35A Outline
X ATR	BL75	9150	9150	250	1B35A Outline
X ATR	BL76	8900	8900	250	1B35A Outline
X ATR	BL77	8900	8900	250	6393/BL68 for Half Height Guide
X ATR	BL609	8600-9050	8750	250	1B37A with 1B63A Window
X ATR	BL610	8600-9050	8750	250	1B37A with Special Fill
X ATR	BL674	8600-9050	9300		1B37A with Ceramic Window
X ATR	BL678	9000-9600	9300	80	BL43 Fast RT
Xb TR	1B50	6000-7100	6550	500	Integral Cavity, Tunable
Xb ATR	1B51	6200-6700	6425	500	Fixed-Tuned
K TR	1B26	23630-24580	23984	100	Integral Cavity, Tunable
K TR	6282/BL11	23350-24950	24000	35	Band Pass, Fixed-Tuned
K TR	6650/BL67	23630-24580	23984	100	1B26, no reservoir
K TR	BL621	23630-24580	23984	100	1B26, with ⅝" Diameter Maximum Reservoir
Ka TR	6545	33814-35906		100	Integral Cavity, TR
Ka TR	BL639				A Bandpass TR Similar to ½ of a BL527
Ka ATR	6546	34860		20 (min.)	Two ATR's in Opposed Seats
K ATR	1B36	23500-24500	24000	75	Fixed-Tuned
K ATR	BL627	23500-24500	24000	75	1B36, Reduced Overall Length
Ku TR	6649/BL56	15000-17000	16000	100	Band Pass, Fixed-Tuned
Ku TR	BL16	16200-16800	16500	40	Integral Cavity, Tunable
Ku ATR	BL15	16335-16665	16500	40	Fixed-Tuned

TRAVELING WAVE AMPLIFIER TUBES

Tube Designation	Frequency	Saturation Power Output	Gain at Max. Power Output	Small Signal Power Gain	Saturation Gain
6651/BL850 BL851	2100-3500	1 Kw	20 db	30-41 db	25-32 db
	Similar to BL850 with Control Grid Requiring 350 Volts for Cut Off and Power Output of 800 W				

SILICON DIODES

Tube Designation	Band	Frequency	Max. Conv. Loss (db)	Noise Ratio	Max. VSWR	IF Impedance (ohms)
1N21B	S	3060	6.5	2.0	—	—
1N21BR	S	3060	6.5	2.0	—	—
1N21C	S	3060	5.5	1.5	—	—
1N21CR	S	3060	5.5	1.5	—	—
1N23B	X	9375	6.5	2.7	—	—
1N23BR	X	9375	6.5	2.7	—	—
1N23C	X	9375	6.0	2.0	1.50	325-475
1N23CR	X	9375	6.0	2.0	1.50	325-475
1N23D	X	9375	5.0	1.7	1.30	350-450
1N23DR	X	9375	5.0	1.7	1.30	350-450
1N53	Ka	34860	8.5	2.5	1.60	400-800
1N78	Ku	16000	7.5	2.5	—	325-625
1N149	X	9375	5.5	1.5	1.50	325-475

Crystal	Band	Frequency	Max. Overall Noise Fig.	Max. VSWR	IF Impedance (ohms)
1N23E	X	9375	7.5	1.3	350-450
1N21E	S	3060	7.0	1.3	430-530

The 1N21 and 1N23 series are available in matched pairs

The 1N415 and 1N416 series reversible diodes are interchangeable with the 1N21 and 1N23 series

DUAL and TRIPLE TR and ATR TUBES

Band and Type	Tube Designation	Range	Frequency Center	Power Level (KW Max.)	Description
L TR	6634/BL90	1215-1355	1285	2000	Dual Band Pass
L TR	BL618	1220-1365	1292	2000	Dual 6633/BL37 for Sidewall Coupler 150μ sec R. T.
S TR	BL638	2900-3100	3050	750	Dual 5853, Fixed-Tuned
S TR	6636/BL87	2700-2900	2800	750	Dual Band Pass
S ATR	BL92	2650-2950	2800	750	Dual
S TR	BL652	3400-3700	3550	1000	Dual 1B55
C TR	6640/BL60	5400-5900	5650	700	Dual Band Pass
C TR	6905/BL613	5400-5900	5650	3000	BL60 with Ceramic Windows
C TR	BL644	5220-5340	5280		Bandwidth to be 5280±30 mc.
C ATR	BL63	5555-5725	5640	300	Dual ATR Fixed Tuned BL61 Mounting Flange
X TR	6334/BL27	8490-9578	9000	200	Dual 1B63A
X TR	6501	8500-9600	9050	250	Dual 5 Element for Large X Guide
X TR	6564/BL71	8500-9600	9050	500	Dual 4 Element for Large X Guide
X TR	6642/BL600	8490-9578	9000	500	6334/BL27 with Large X In and Small X Out
X TR	6643/BL81	8490-9578	9000	200	6334/BL27 plus Separate Channel 1B63A for Local Oscillator
X TR	6646/BL604	8490-9578	9000	200	Dual 1B63A, 2μsec R. T.
X TR	6647/BL604-H	8490-9578	9000	200	6646/BL604 with Heater
X TR	6648/BL615	8490-9578	9000	200	6334/BL27 with Special Saddle-Type Flange
X TR	BL78	8490-9578	9000	200	6334/BL27 with Tapped Flanges both Ends
X TR	BL607	8490-9578	9000	200	6334/BL27, Special Hole Dimension for Aluminum Flange
X TR	BL624	8490-9578	9000	200	6334/BL27, 11/64" Flanges and 4 Mounting Holes
X TR	BL625	8490-9578	9000	200	6648/BL615, Special Encapsulated Ignitor Structure
X TR	BL631	8490-9578	9000	500	6642/BL600, Large X in Small X Out, Heavy Flanges
X TR	BL636	8490-9578	9000	1000	6642/BL600 Prototype for Higher Power
X TR	6796	8500-9600	9000	200	6334 But shorter physically
X TR	6797	8500-9600	9000	200	Miniature Dual TR Similar to 6334. Rev. Contact Mtg.
X TR	BL684	8500-9600	9000	40	Dual 6378 Special Fill
X TR	BL666	8490-9578	9000	500	BL600 with Ignitors Encapsulated and R.T. 9 to 14μ sec without 500 Hours Life Req.
X TR	BL668	8490-9600	9375	100	Dual 6378/BL62 (Standard Ignitor Construction)
X TR	BL655	8490-9570		500	A BL335 without Shutter Armature, Spring or Coil.
X	BL669	8490-9578	9000	500	A BL600 with Encapsulated Ignitor Controlled R. T., 9-14μ sec
X	BL649	8490-9578	9000	200	Dual TR Input & Output Flange to Mate with Dual Chokes
X	BL651-H	8490-9578	9000	200	Dual TR with Input and Output Flanges to Mate with Dual Chokes
X	BL-682	8490-9578	9000	200	BL624 with 6 Hole Flanges. 6 Tapped Holes on Output Flange, 6 Clearance Holes Input Flange
X	BL686	8500-9600	9050	40	A BL651 with 50μ sec Recovery Time, 1 mw Flat, .04 Erg Spike
Ku TR	6560/BL35	15000-17000	16000	100	Dual Band Pass
Ku TR	BL667	15675-17325	16500	100	BL35 Prototype
Ka TR	6685/BL616	33500-36250	34875	100	Dual Band Pass, Single Ignitor

MAGNETRON TUBES

Tube Designation	Description
5780	X Band, Tunable, 250 KW
6551	K Band, Fixed-Tuned, 40 KW, 24000 Mcs
BL50	Millimeter Wave Length, Fixed-Tuned, Frequency Ranges between 5.3 and 5.8 mm
BL202	BL50, Not Packaged, 5.0 mm±5%
BL212	Miniature Tunable C Band, 100 Watts Peak Pulse Power, Medium Shock and Spin Requirements
BL215	Miniature C Band, 400 W Peak Pulse Power, High Shock Requirements

Bomac LABORATORIES, INC.,

Beverly, Massachusetts

We invite your inquiries regarding

ENGINEERING
DEVELOPMENT
PRODUCTION

PRESSURIZING WINDOWS

Tube Designation	Band	Frequency	Wave-Guide Size	Type Mounting	Description
BL105	X	9375	51/u	Choke	Round, Plated, 4 Mounting Holes
BL106	X	9245	52/u	Choke	Round, Plated, 4 Mounting Holes
BL107	X	9310	51/u	Solder	Oval, Kovar Finish
BL112	X	9080	52/u	Choke	Round, Plated
BL114	X	9310	52/u	Solder	Oval, Kovar Finish
BL116	Ku	16500	91/u	Solder	Oval, Kovar Finish
BL117	X	9080	52/u	Choke	Round, Plated
BL119	X	8800	52/u	Choke	Round, Plated
BL122	X	9100	52/u	Choke	Round, Plated, 4 Mounting Holes
BL123	Xb	6500	50/u	Solder	Oval, Kovar Finish
BL124	S	2800	48/u	Solder	Oval, Kovar Finish
BL125	X	9310	52/u	Solder	Oval, Kovar Finish, 0.3db Loss
BL126	X	9250-9405			Round, Plated, Tapered at Edge
BL127	S		48/u	Solder	Viewing, Optically Clear
BL132	X	8500-9600	52/u	Choke	Mica, Rectangular, Plated 4 Mounting Holes
BL133	Ku	15000-17000	91/u	Choke	Mica, Rectangular, Plated 4 Mtg Holes
BL134	C	5550	50/u	Solder	Oval, Kovar Finish
BL135					Pressure Viewing, 1" iris, Deep Drawn Cup
BL136	X	9500	52/u	Solder	BL114 Centered 9500±100 mcs
BL139	X	9100	51/u	Choke	Round, Plated, 4 Mounting Holes
BL140	Ku	16000	91/u	Solder	Round, Plated
BL141	C	5350	49/u	Solder	Oval, Kovar Finish
BL143	Ku	16000	91/u	Solder	Oval, Kovar Finish
BL144	Ku	16000	91/u	Choke	Oval, 100 kw Power Handling
BL145	X	9375	52/u	Choke	Round, Plated, 4 Mounting Holes
BL704	C	5000	49/u	Solder	1.15 Maximum VSWR
BL705					Special for BL528
BL707	Ku	13500	91/u	Solder	1.3 Maximum VSWR, 200 Watts Peak
BL709	X	9050	51/u	Solder	Rectangular, Kovar Finish
BL710	X	9050	52/u	Choke	Modified BL132
BL711	Ku	12500-13500	91/u	Solder	1.10 VSWR
BL712	S	3000	48/u	Solder	Rectangular 1.2 VSWR Maximum ±200Mc
BL713	S	3000	48/u	Choke	Round 1.2 VSWR Maximum ±200Mc
BL715	K	24000	53/u	Solder	Round
BL719	X	8200-12400	52/u		Mica, 1.08 VSWR

PRESSURIZING WINDOWS

Tube Designation	Band	Frequency	Wave-Guide Size	Type Mounting	Description
BL722	X	8500-9600	51/u	Choke	Mica Window for RG51/u to Mate with UG52A/u
BL725	C			Solder	BL28 Ceramic Window Assembly, Copper Brazed
BL729	Ku	13500	91/u	Solder	Similar to BL707 except for Outside Dimensions Same as Dimensions of RG91/u waveguide. 3db points at 2000 mcs or Less fo-13500
BL730	C	5000	49/u	Solder	BL704 Design with .060 Glass
BL731	Ku	13500	91/u	Solder	BL707 to Fit Flush with Outside Dimension of Waveguide O.D. .218 x .702, I.D. .138 x .622
BL733	C	5400-5900	49/u		VSWR-1. 25 Max. Press .60 psi, Ins. Loss 0.2db Max.
BL736	X				BL528 Window
BL737	Ka		96/u	Solder	Ka Window Same as Used in BL527
BL738	C	5500	49/u	Solder	Similar to BL730 VSWR Less than 1.25 5.1-5.9 Kmc
BL741	S	3000	48/u	Solder	Same Electrical Spec. as BL712 Except Gasket will be on the Output Side of Window Instead of the Inside
BL742	C	5450-5825	49/u	Solder	Same Electrical Spec. as BL141 Except Freq. 5450-5865 Mc, Peak Power 250 kw VSWR 1.12
BL743	S	2800	48/u	Solder	A BL124 Window for 1 Mw-330Mc.
BL746	C	5280	49/u	Solder	1" x 1.875 Window
BL747	Xb	5975	50/u	Solder	Mica Window
BL751	X				BL800 Mica Window with Section of Steel Waveguide Brazed to Flange
BL753	X	9000			X-Band Ceramic Pressurized Window Used in BL636
BL754	Ku	16100			Similar to BL116 and BL143 with 16.1 Kmc
BL755	X	9000			1B63A Dimpled Window. 2800-3200 Mc Max.
BL756	S	3000			VSWR 1.2 OD 1½ x 3"

SURGE PROTECTORS

Tube Designation	Description
BL121	Spark Gap Voltage Control Tube 2.0-2.4 KV
BL137	Modified BL121, 2000 Volts
BL142	Protective Gas Device 3000-4000 Volts
BL146	Special Protective Gas Diode 33000 Volts
BL147	Special BL146, 200-300 Volts
BL700	Special BL146 for 19±1 KV Operation
BL702	Special BL146 for 19±1 KV Operation, ½" Length
BL703	Special BL137, 2300-2700 Volts
BL706	Special BL137, 100 Volts Hold-off
BL714	Special BL146, 27000 Volts Breakdown, 18000 Hold-off
BL716	Special BL146, 24000-27000 Volts Breakdown
BL717	Special BL700, 8500 Volts Minimum, 10000 Volts Maximum
BL718	Special BL700, 10500 Volts Minimum, 12000 Volts Maximum
BL724	Special BL700, 7.2 KV Minimum, 7.7 KV Maximum
BL726	20-25 KV
BL735	12-13 KV. Same outline as 1B45
BL744	Modified BL121
BL745	Modified BL724 for 5.5 KV Breakdown
BL752	Modified BL146 for 5.5 KV-6. 5 KV Breakdown

REFERENCE CAVITIES

Tube Designation	Resonant Frequency	Loaded	Insertion Loss db
5846	9280	2150	4-6
6040	9308	2150	4-6
6041	9312	2150	4-6
6301	9270	1250	5-8
6452	9350	1750	4-6
1Q22	9250	2150	4-6
1Q23	9280	2150	4-6
1Q24	9310	2150	4-6
1Q26A	9280	1250	5-8
BL414	11000	2150	4-6
BL415	9400	2150	4-6
BL420	9790	Dual Mode for Discriminator	—
BL422	9270	2150	4-6

SPARK GAP TUBES

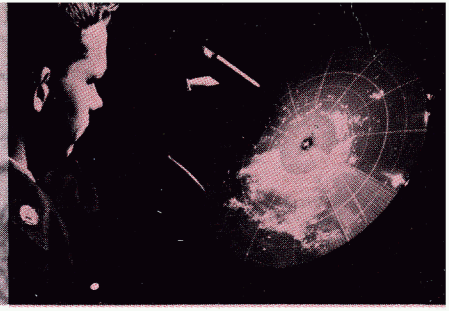
Tube Designation	Description
1B22	Max. Peak Voltage 2700
1B31	Spark Gap Modulator-Breakdown Voltage 6.8-9.9KV
1B41	Series Gap Modulator-Breakdown Voltage 8.7-10.2 KV
1B45	Series Gap Modulator-Breakdown Voltage 14.5-16.5 KV

HYDROGEN THYRATRONS

Tube Designation	Peak Anode Voltage (KW Max.)	Peak Anode Current (Amps Max.)	Average Anode Current (Ma Max.)	Peak Trigger Voltage (Volts Min.)
1258	1.0	20	50	175
3C45	3.0	35	45	175
4C35	8.0	90	100	175
5C22	16.0	325	200	200

The above is a partial list of products—other types will be supplied on request

RADAR SERVES . . .



BOMAC SHUTTER TUBES

Band	Tube Designation	Frequency	Power Level (KW Max.)	Shutter Circuit Voltage	Description
X	6565/BL313	8490-9600	100	14 Vdc	Shutter and TR, 6378 Outline
K	6588/BL315	23700-24300	1	14 Vdc	Shutter only, 6282 Outline
X	BL307	8490-9578	200	28 Vdc	Dual Shutter and TR, 6334 Outline
C	6592/BL309	5200-5530	1000	28 Vdc	Shutter and TR, 5925 Outline
X	6593/BL310	8490-9560	1000	28Vdc	Shutter and TR, BL82 Outline
C	6594/BL311	5395-5905	1000	28 Vdc	Shutter and TR, 5865 Outline
X	6595/BL316	8490-9600	100	3V(ac-dc)	Shutter and TR, 6578 Outline
X	6596/BL317	8490-9578	250	28 Vdc	Dual Shutter and TR, 6334 Outline
X	6597/BL320	8490-9578	250	6V(ac-dc)	Shutter and TR, 1B63A Outline
X	6599/BL322	8490-9578	250	6V(ac-dc)	Shutter and TR, 6334 Tapped Flange Both Ends
X	6600/BL323	8490-9600	1	6V(ac-dc)	Shutter Only, 6378 Outline
X	6601/BL327	8490-9578	250	17-30 Vdc	Dual Shutter and TR, Large X Flange In, Small X Flange Out
S	6602/BL329	3100-3500	750	17-30 Vdc	Shutter and TR, 5927,Outline
Ku	6603/BL330	15000-17000	1	28 Vdc	Shutter Only, BL35 Outline
X	6604/BL509	8490-9578	250	28 Vdc	Dupiexer and Shutter, BL507 Outline
X	6613/BL324	8490-9578	250	28 Vdc	Dual Shutter and TR, Short Ignitor Electrode
X	6614/BL314	8490-9578	250	28 Vdc	Shutter and TR, 1B63A with Self-Locking Shutter
X	6615/BL312	8490-9578	250	28 Vdc	Shutter and TR, 1B63A Outline
X	6616/BL326	8490-9578	250	17-30 Vdc	Shutter and TR, 1B63A Outline
X	6904/BL348	8490-9578	250	28 Vdc	Dual Shutter & TR. BL324 Prototype. 0.170″ Flanges
X	BL326H	8490-9578	250	17-30 Vdc	6616/BL326 with 28V Heater and Thermostat
X	BL325	8490-9578	1	28 Vdc	Low Power Shutter Only, Band Pass, 1B63A Outline
X	BL331	8490-9578	250	28 Vdc	Dual Shutter and TR, 15μ sec. RT. at 3db
X	BL334	8490-9600	1	28 Vdc	Shutter Only, 6378 Outline
X	BL335	8490-9578	500	17-30 Vdc	6601/BL327 Dual TR and Shutter, 9-10μ sec. RT, K. A. Resistor and Leads Encapsulated
C	BL336	5400-5900	700	28 Vdc	BL60 with Shutter, Dual TR
C	BL337	5395-5905	3000	28 Vdc	BL28 with Shutter
X	BL338	8490-9578	100	28Vdc	6645/BL95H with Shutter
X	BL339	8490-9578	200	28 Vdc	6647/BL604H with Shutter
X	BL340	8490-9578	250	17-30 Vdc	6615/BL326 Prototype with Opposed Coils
X	BL340H	8490-9578	250	17-30 Vdc.	BL340H with Heater
X	BL341	8490-9578	500	24-32 Vdc	BL327 with Magnet Coils of BL312
X	BL344	8490-9578	200	28 Vdc	Dual TR and Shutter, BL307 Prototype, Saddle Type Flange, BL615 Electrical Characteristics
S	BL345	2600-3000	750	17-32 Vdc	1B58 with Shutters
S	BL346	2600-3000	750	17-32 Vdc	Dual TR (BL87) with Shutters
X	BL347	8490-9600	100	6V(ac-dc)	Shutter and TR, 6378 Outline
X	BL349	8490-9578	200	28 Vdc	BL312 Prototype Recovery Time at —55° C. to be 7 sec. @ 3 Kw
X	BL354	8490-9578	250		BL307 with Special Terminal Board
X	BL355	8490-9578	200	28 Vdc	BL344 with 1μ Sec RT at 80 Kw, Peak Power .001DU
X	BL356	8490-9578	250	28 Vdc	BL312 Prototype Except KA on right Side Facing Tube Output with Shutter Mechanism in Upright Direction
X	BL358	8490-9578	200	28 Vdc	BL335 with 16-20μ sec Recovery Time
C	BL350	5395-5905	1000	28 Vdc	Shutter & TR5865 Outline with AN Connector
C	BL352	5400-5900		28 Vdc	Dual TR(BL60) with Shutters, (BL336) with AN Connectors
C	BL353	5395-5905	1 Watt peak	28 Vdc	BL311 Prototype Shutter Only, Air-Fill
S	BL351	2900-3200	3050	28 Vdc	5853 TR with Shutter
S	BL357	3360-3740	1000	28 Vdc	Dual 1B55 28 V Shutter

EQUIPMENT AND PLUMBING

Band	Tube Designation	Description
	BL500	K. A Power Supply, 750 Volts
X	BL507	Complete Dual Hybrid Duplexer
S	BL508	Hybrid
X	6604/BL509	Complete Duplexer and 28 Vdc Shutter
X	BL510	Complete Duplexer with BL307 Shutter
X	BL514	Hybrid with Mating Flanges
X	BL515	Modified BL507
X	BL516	Large X, Complete Duplexer
X	BL517	Large X Hybrids with Mating Flanges
Ku	BL522	Complete Duplexer System with AFC and Mixers
X	BL523	Large X Hybrid
Ku	BL525	Hybrid
Ka	BL526	Hybrid
Ka	BL527	Duplexer
X	BL528	Antenna
X	BL529	ATR Duplexer
X	BL530	Balanced Mixer
C	BL532	Hybrid
X	BL533	Hybrid with Arms
X	BL534	Hybrid
X	BL535	Large X Hybrid
L	BL536	Duplexer
S	BL537	Adaptors for use with BL508
X	BL538	Large X Hybrids with Mating Flanges Both Ends
X	BL539	Duplexer
X	BL542	Duplexer, Large X Input and BL327 Shutter Tube
X	BL543	Discriminator, Center Frequency 9150 Mc, Q = 2000
X	BL545	Adaptors for Use with BL514. Straight Section and an H Plane Bend, each Arm Terminating in Plain Flanges
Ku	BL548	Complete Duplexer Plumbing Ku Band for Use with BL35
C	BL551	Short-slot Hybrid Junction with Arms
K	BL552	Hybrid 23-25 Kmc for Use with BL645
X	BL553	Hybrid 1 x ½ Guide; Mating Flange One End; Other End Machined to Take Guide
X	BL555	1B63A Structure with Single Shutter and Wave guide Structure, Similar to BL524 Less One Shutter and Filter
X	BL556	A BL544 with Modified Mounting Bushing and Modified Dimensioning
Ku	BL557	A Ku Duplexing System: 15.9 to 16.9 kms
	BL558	Adapter for BL527
	BL559	Adapter for BL527, Both Arms Terminating with UG/600V Choke Flanges
	BL564	A Dual Balance Mixer with Hybrids; no Flange, for 1N415D

REFLEX KLYSTRON TUBES

Tube Designation	Frequency	Resonator Potential DC Volts	Power Output Milliwatts Min.	Power Output Milliwatts Max.	Type of Tuning
6780/BL800	8500-10000	300	25	100	Mechanical (Capacitive)
6781/BL800A	8500-10000	300	35	125	Improved Power and Frequency Pulling
BL801	8500-10000	300	25	100	Integral Tunable External Cavity
BL802	8800-9200	250	5		X-Band for Tunable External Cavity
BL803	8500-10000	200-300	15-25		BL800 with Single Side Tuning Using Hex Nut Including Molded Leads
BL806	8500-10000	200	25		X-Band BL800 Prototype. Single Side Tuning. Includes Pee-Wee 3 Pin Base and Wafer Reflector Cap