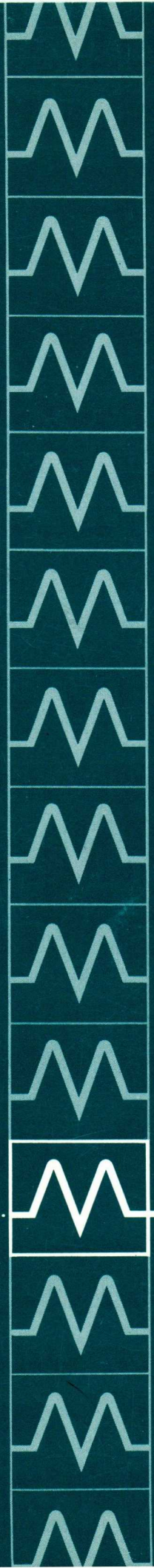

for better microwave tubes and devices .....

METCOM INC.

SALEM, MASSACHUSETTS

INTRODUCTION

Since its founding in 1959, Metcom's growth has been steady and rapid so that today it is a recognized leader in the design, development and production of microwave tubes and devices.

On the staff are some of the country's outstanding pioneers in microwave tubes. Its facilities include the most up-to-date production and test equipment so necessary in producing high quality products. All tubes are thoroughly tested to insure peak performance, maximum uniformity and outstanding reliability.

Metcom's staff and facilities stand ready to serve you with a complete design, development and manufacturing service for better microwave tubes and devices. Whatever your problem — whatever specifications you must meet — Metcom has the answer.

Make sure it's by Metcom, because Metcom makes sure

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P BAND 2

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METCOM INC.

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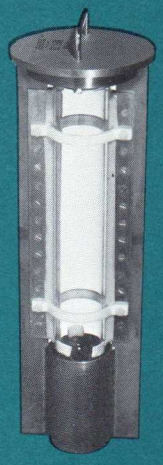
CELL TYPE EXTERNAL CAVITY TR TUBES

P BAND

Number Designation	Coaxial Cavity Tunable Cell	Frequency In Mc	Peak Power In Kw	Average Power In Watts	Brief Description
7309/MPT-26	3⅛ Coaxial Fixed Tuned	300–600	2000	5000	Flange Mounted
7324/MPT-11	3⅛ Coaxial Fixed Tuned	300–600	2000	4000	Plug in Mount
7821/MPT-12	3⅛ Coaxial Fixed Tuned	200–600	200	10000	Flange Mounted High Average Power Application
7901/MPT-13	3⅛ Coaxial Fixed Tuned	300–600	20	40	Plug in Mount
7902/MPT-17	3⅛ Coaxial Fixed Tuned	300–600	3000	5000	Plug in Mount
MPT-10	Tunable	575–625	2000	4000	Cavity Mount
MPT-14	3⅛ Coaxial Fixed Tuned	200–600	200	10000	Plug in Mount 7821/MPT-12
MPT-15A	⅞ Coaxial Fixed Tuned	300–600	30	60	Plug in Mount
MPT-16A	⅞ Coaxial Fixed Tuned	300–600	2	4	Plug in Mount
MPT-22	⅞ Coaxial Fixed Tuned	200–600	15	500	Strip Line Mounted
MPT-17A	3⅛ Coaxial Fixed Tuned	300–600	3000	5000	MPT-17 with 30 μs R.T.
MPT-18	3⅛ Coaxial Fixed Tuned	420–430	2000	2000	Flange Mounted High Power
MPT-20	3⅛ Coaxial Fixed Tuned	400–450	2000	2000	Plug in Mount
MPT-21	3⅛ Coaxial Fixed Tuned	200–600	200	1000	Plug in Mount
8060/MPT-23	3⅛ Coaxial Fixed Tuned	Classified			
8061/MPT-24	3⅛ Coaxial Fixed Tuned	Classified			
MPT-25	3⅛ Coaxial Fixed Tuned	300–600	2000	5000	Plug in Mount
MPT-27	3⅛ Coaxial Fixed Tuned	400–450	20	20	Flange Mounted
MPT-28	⅞ Coaxial Fixed Tuned	300–600	1000	1000	Plug in Mount
MPT-29	⅞ Coaxial Fixed Tuned	200–600	15	500	Plug in Mount
MPT-30	3⅛ Coaxial Fixed Tuned	400–450	1500	1500	Plug in Mount
MPT-31	3⅛ Tunable	600–900	2000	4000	Cavity Mount
MZT-11	6⅛ Coaxial Fixed Tuned	10–50	5000	100000	Cavity Mount

P BAND

FOLDED CYLINDERS



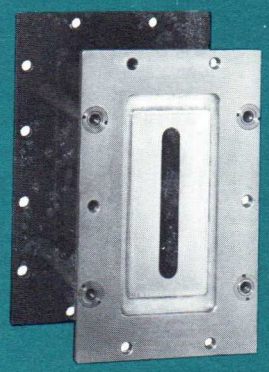
Number Designation	Frequency In Mc	Peak Power In Kw	Average Power In Kw	Brief Description
MDS-11	300–600	3000	5	3⅛ Coaxial Line Mounted
MDS-24	300–600	2500	150	Cavity Mounted
MDS-54	300–600	2500	150	Cavity Mounted
MDS-58	300–600	2500	150	Cavity Mounted
MDS-59	300–600	2500	150	Cavity Mounted
MDS-62	300–600	2500	150	Cavity Mounted
MDS-63	300–600	2500	150	Cavity Mounted
MDS-64	300–600	2500	150	Cavity Mounted
MDS-65	300–600	2500	150	Cavity Mounted
MDS-66	300–600	2500	150	Cavity Mounted
MDS-67	300–600	2500	150	Cavity Mounted
MDS-68	300–600	2500	150	Cavity Mounted
MDS-69	300–600	2500	150	Cavity Mounted
MDS-70	300–600	2500	150	Cavity Mounted
MDS-71	300–600	2500	150	Cavity Mounted
MDS-72	300–600	2500	150	Cavity Mounted
MDS-73	300–600	2500	150	Cavity Mounted
MDS-74	300–600	2500	150	Cavity Mounted
MDS-75	300–600	2500	150	Cavity Mounted

continued

FOLDED CYLINDERS Cont.

Number Designation	Frequency In Mc	Peak Power In Kw	Average Power In Kw	Brief Description
MDS-76	300–600	2500	150	Cavity Mounted
MDS-77	300–600	2500	150	Cavity Mounted
MDS-78	300–600	2500	150	Cavity Mounted
MDS-79	300–600	2500	150	Cavity Mounted
MDS-80	300–600	2500	150	Cavity Mounted
MDS-81	300–600	2500	150	Cavity Mounted
MDS-82	300–600	2500	150	Cavity Mounted
MDS-83	300–600	2500	150	Cavity Mounted
MDS-86	300–600	2500	150	Cavity Mounted
MPT-19	400–450	50	3	Cavity Mounted WR-2100 Guide

GAS SWITCHING DUPLEXER TUBES



L BAND

L BAND TUNABLE — BAND PASS — PRE TR — AND TR TUBES

Number Designation	Type	Frequency In Mc	Peak Power In Kw	Average Power In Watts	Brief Description
5939A/MLT-21	Pre-TR	1250–1350	550	550	Used in Pairs Dumbell Type
6260/MLT-22	Pre-TR	1250–1350	2000	2000	Dumbell Type
6605/MLT-23	Pre-TR	1250–1350	2000	2000	Broadband Pressurizable
6632/MLT-24	Tunable Band Pass TR	1215–1355	2000	2000	Broadband
6633/MLT-17	Band Pass TR	1220–1365	2000	2000	Broadband Pressurizable
6634/MLT-25	Dual Band Pass TR	1250–1350	5000	5000	RT = 150 μs use with Sidewall Couplers
7152/MLT-16B	Pre-TR	1250–1350	2000	2000	Broadband 1000 Hr. Life
7166/MLT-10	Band Pass TR	1200–1365	2000	2000	Broadband Pressurizable Short Length 6633
7365/MLT-27	Band Pass TR	1250–1350	10	10	Broadband Crystal Protector 3 Elements
7823/MLT-13	Band Pass TR	1250–1350	50	50	Broadband Crystal Protector
MLT-18	Band Pass TR	1200–1365	2000	2000	7166 with Special Mounting Gasket
MLT-29	Band Pass TR	1250–1350	50	50	Broadband Crystal Protector w/Ignitor Electrode
6322/MLT-11	Tunable Cell Type TR	1215–1355	450	450	Two Disc
MLT-12	Tunable Band Pass TR	1215–1355	450	450	1000 Hr. Life 6322
MLT-15	Tunable Band Pass TR	1215–1355	450	450	6322 with reinforcing ring
1B23/MLT-19	Fixed Tuned Cell TR	900–1200	450	450	One Disc
1B40/MLT-20	Separate Cavity TR	1075–1095	1	1	Electrode less Discharge
MLT-30	Pre-TR	1250–1350	2000	2000	5939A with 7152 Window
MLT-32	Band Pass TR	1205–1225	10	10	Broadband
MLT-33	Band Pass TR	1250–1350	100	100	1000 Hr. Life Crystal Protector
MLT-35	Band Pass TR	1350–1450	500	500	1000 Hr. Life Crystal Protector

L BAND ATR TUBES

Number Designation	Type	Center Frequency In Mc	Peak Power In Kw	Average Power In Watts	Brief Description
6628/MLA-11	ATR	Single–1222 Pairs–1285	2000	2000	Fixed Tuned Half Height Guide
6962/MLA-12	ATR	1285	2000	2000	Half Height Guide Low Q, Double Iris Window
MLA-10	ATR	1300	2000	2000	Fixed Tuned

L BAND

S BAND — TUNABLE — BAND PASS — PRE-TR AND TR TUBES

Number Designation	Type	Frequency In Mc	Peak Power In Kw	Average Power In Watts	Brief Description
1B27/MST-13	Cell Type TR	2700–3400	100	100	Tunable
1B38/MST-26	Pre-TR	2690–2910	750	750	Broadband Fixed Tuned
1B54/MST-27	Pre-TR	3400–3700	750	750	Broadband Fixed Tuned
1B55/MST-18	Band Pass TR	3365–3740	750	600	Broadband Fixed Tuned
1B58A/MST-12	Band Pass TR	2664–2964	750	600	Broadband Fixed Tuned
1B62/MST-14	Cell Type TR	2700–3300	350	350	Fixed Tuned
5853/MST-23	Band Pass TR	2900–3200	750	600	Broadband Fixed Tuned
5927/MST-21	Band Pass TR	3100–3500	750	750	Broadband Fixed Tuned
6117/MST-11	Band Pass TR	2664–2964	750	600	10 Hole Flange Pressurizable IB58A Mounting
6635/MST-18	Cell Type Tunable TR	2690–2710	5	5	Integral Cavity
6636/MST-24	Dual Band Pass TR	2700–2900	750	750	Dual 1B58A
6637/MST-29	Cell Type TR	3135–3465	50	50	Fixed Tuned
6638/MST-30	Cell Type TR	3135–3465	50	50	6637 with Positive Ignitor
7366/MST-15	Band Pass TR	2900–3200	4	4	Three Element Crystal Protector
MST-10	Band Pass TR	2700–2900	100	4	Low Power 1B58A Crystal Protector
MST-16	Coaxial Tunable TR	2700–2900	100	100	Type N Coaxial Input & Output
MST-19	Cell Type Tunable TR	2700–3400	100	100	1000 Hr. 1B27
MST-20	Coaxial Band Pass TR	2800–3000	750	750	Type N Coaxial Input and Output
MST-22	Dual Band Pass TR	2700–2900	1000	750	Three Elements
MST-25	Band Pass TR	2700–2900	300	4	1000 Hour Life Crystal Protector
MST-31	Dual Band Pass TR	2900–3200	1200	1200	Dual High Power 5853
MST-32	Band Pass TR	3350–3650	800	800	High Power Crystal Protector
MST-33	Band Pass TR	2700–2900	250	250	Low Power 1B58A
MST-34	Dual Band Pass TR	2700–2900	1000	750	For Use With Tap Wall Coupler
MST-35	Band Pass TR	2700–2900	50	50	Crystal Protetor
MST-36	Band Pass TR	2950–3250	1200	1200	High Powered 5853
MST-37	Coaxial Tunable TR	3000–3100	100	100	Type N Coaxial Input and Output
8099/MST-38	Band Pass TR	2625–2925	100	100	Broadband Fixed Tuned
MST-39	Band Pass TR	2700–2900	250	250	Round Flange
MST-40	Band Pass TR	2900–3100	300	300	Traveling Wave Protector
MST-41	Dual Band Pass Pre-TR	2650–2950	1000	2	Fixed Tuned
MST-42	Dual Band Pass TR	2940–3060	1000	750	Three Elements
MST-43	Band Pass TR	2665–2965	100	100	1000 Hr. Life

S BAND

S BAND ATR TUBES

Number Designation	Type	Center Frequency In Mc	Peak Power In Kw	Average Power In Watts	Brief Description
1B44/MSA-12	ATR	2750	750	750	Fixed Tuned
1B52/MSA-21	ATR	3625	750	750	Fixed Tuned
1B53/MSA-15	ATR	3479	750	750	Fixed Tuned
1B56/MSA-11	ATR	2850	750	750	Fixed Tuned
1B57/MSA-22	ATR	3325	750	750	Fixed Tuned
5792/MSA-16	ATR	2950	750	750	Fixed Tuned
5793/MSA-17	ATR	3050	750	750	Fixed Tuned
5921/MSA-18	ATR	3200	750	750	Fixed Tuned
5922/MSA-19	ATR	3400	750	750	Fixed Tuned
6024/MSA-20	ATR	2800	750	750	Fixed Tuned
MSA-10	ATR	2800	1000	1000	15 μsec Rec. Time
MSA-13	ATR	2950	2000	2400	Fixed Tuned
MSA-14	ATR	3050	2000	2400	Fixed Tuned
MSA-23	ATR	2800	1000	1000	Fixed Tuned

S BAND

5.480
5.430– 5.550

C BAND — TUNABLE — BAND PASS — PRE-TR AND TR TUBES

Number Designation	Type	Frequency in Mc	Peak Power in Kw	Average Power in Watts	Brief Description
1B50/MCT-33	Tunable Band Pass TR	6000–7100	500	500	Integral Tunable
5865/MCT-32	Band Pass TR	5395–5905	300	300	Fixed Tuned
5925/MCT-31	Band Pass TR	5200–5530	1000	1000	Fixed Tuned
					Fixed Tuned
6568/MCT-17	Band Pass TR	5395–5905	3000	3000	Phase Controlled within ±5°
6624/MCT-13	Band Pass TR	5350–5450	85	85	Commerial Weather Radar Fixed Tuned, Three Elements Saddle Mount, Input Mount
6639/MCT-14	Tunable TR	5450–5650	20	20	Flange Mount
6640/MCT-16	Dual Band Pass TR	5395–5905	700	700	Fixed Tuned
6641/MCT-34	Dual Band Pass TR	5150–5410	1000	1000	Fixed Tuned
6905/MCT-10	Dual Band Pass TR	5395–5905	3000	3000	Fixed Tuned, Phase Controlled within ±5° when used with 6906
6906–MCT-26	Band Pass TR	5395–5905	5	5	Fixed Tuned, Phase Controlled within ±5° when used with 6905
7367/MCT-35	Band Pass TR	5475–5825	10	10	Three Element, Crystal Protector
MCT-11	Band Pass TR	5395–5905	1000	1000	Choke Flange, Low Power Side 6568
MCT-12	Dual Pre-TR	5395–5905	500	500	Fixed Tuned, Ionizes Above 10 Watts
MCT-15	Tunable TR	5540–5560	1	1	Fast Recovery Time 6639
MCT-18	Pre-TR	5395–5905	1000	1000	Fixed Tuned, Ionizes Above 10 Watts
MCT-19	Band Pass TR	5395–5905	.4	.4	Saddle Mount
MCT-20	Dual Band Pass TR	5220–5340	1000	1000	Fixed Tuned
MCT-21	Band Pass TR	5395–5905	500	500	High Power 5865
MCT-24	Band Pass TR	5250–5350	300	300	5865 Except for Frequency
MCT-27	Band Pass TR	5395–5905	250	250	Crystal Protector
MCT-28	Coaxial Band Pass TR	5395–5905	4	4	Type N Input and Output
MCT-29	Band Pass TR	5350–5450	85	85	Crystal Protector WR-137 WG
MCT-36	Band Pass TR	4445–4465	1.75	1.75	MCT-27 1000 Hr. Life Phase Control

C BAND

C BAND ATR TUBES

Number Designation	Type	Center Frequency In Mc	Peak Power In Kw	Average Power In Watts	Brief Description
1B51/MCA-14	ATR	6425	200	200	Fixed Tuned
6022/MCA-13	ATR	5365	1000	1000	Fixed Tuned
6081/MCA-11	ATR	5640	300	300	Fixed Tuned
6455/MCA-12	ATR	5640	300	300	Fixed Tuned
6591/MCA-10	ATR	5400	150	150	Commercial Weather Radar Fixed Tuned

C BAND

X BAND — TUNABLE — BAND PASS — PRE-TR AND TR TUBES

Number Designation	Type	Frequency In Mc	Peak Power In Kw	Average Power In Watts	Brief Description
1B24A/MXT-14	Tunable	8490–9600	100	100	Integral Cavity
1B63A/MXT-15	Band Pass TR	8490–9578	200	200	Band Pass Fixed Tuned
1B63B/MXT-15A	Band Pass TR	8490–9578	200	200	1000 Hour Life 1B63A
5863/MXT-64	Band Pass TR	8490–9578	250	250	Bell Lab Flanges, 5 Elements
6035/MXT-65	Band Pass TR	8490–9578	200	200	Parallel Flanges
6164/MXT-66	Band Pass TR	8490–9578	250	250	Controlled Phase Shift
6232/MXT-41	Band Pass TR	8490–9578	200	200	1B63A with Flange for RG51/U

X BAND

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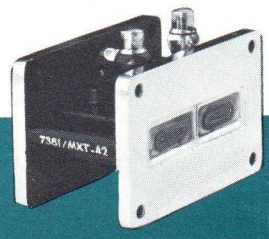


X BAND — TUNABLE — BAND PASS — PRE-TR AND TR TUBES

Number Designation	Type	Frequency In Mc	Peak Power In Kw	Average Power In Watts	Brief Description
6334/MXT-19	Dual Band Pass TR	8490–9578	200	200	Dual 1B63A
6368/MXT-67	Band Pass TR	8490–9578	1000	1000	Fixed Tuned
6378/MXT-20	Tunable	8490–9600	100	100	1B24A without Reservoir
6564/MXT-68	Dual Band Pass TR	8490–9578	250	250	For Large X Guide 6334 with Large X Input Flange
6642/MXT-60	Dual Band Pass TR	8490–9578	200	200	Small X Output Flange for High Power
6644/MXT-45	Band Pass TR	8490–9578	100	100	1B63A with 1.5 μS Rec. Time
6645/MXT-61	Band Pass TR	8490–9578	100	100	1B63A for High and Low Temp. Operation
6646/MXT-70	Dual Band Pass TR	8490–9578	100	100	6334 with 1.5 μS Rec. Time
6648/MXT-71	Dual Band Pass TR	8490–9578	200	200	6334 for Saddle Mount
6795A/MXT-13	Band Pass TR	9000–9400	40	40	Crystal Protector Narrow Band Saddle Flange Mount
6795B/MXT-95	Band Pass TR	9100–10,000	40	40	Saddle Flange Mount
6796/MXT-72	Dual Band Pass TR	8490–9578	200	200	Short Length 6334
6797/MXT-73	Dual Band Pass TR	8490–9578	200	200	6334 Miniaturized Contact Mount
6805/MXT-74	Dual Band Pass TR	8500–9600	200	200	6648 with Ignitor Encapsulated
7369/MXT-76	Band Pass TR	8490–9578	10	10	Crystal Protector Short Length
7379/MXT-91	Dual Band Pass TR	8490–9578	500	500	High Power Large X Input Flange Small X Output Flange
7380/MXT-24	Dual Band Pass TR	8600–9600	500	500	Large X Input Flange Small X Output Flange
7381/MXT-42	Dual Band Pass TR	8490–9578	200	200	6334 for High and Low Temp. Operation
7381A/MXT-42A	Dual Band Pass TR	8490–9578	200	200	7381 with Low Leakage at High Temperature
MXT-10	Band Pass TR	9100–9500	10	10	Crystal Protector Narrow Band
MXT-12	Dual Band Pass TR	8490–9578	200	200	6334 with .100 Common Wall
MXT-16	Band Pass TR	8490–9578	100	100	Phase Control
MXT-17	Band Pass TR	8490–9578	200	200	High Rep. Rate, Fast Rec. Time Crystal Protector 4 Elements for High and Low Temp. Operation
MXT-21	Band Pass TR	9240–9450	5	5	
MXT-22	Dual Band Pass TR	8490–9578	100	100	Phase Control TR
MXT-23	Band Pass TR	8490–9578	100	100	Phase Control TR
MXT-26	Dual Band Pass TR	8490–9578	500	500	Impedance Input Flange
MXT-27	Dual Band Pass TR	8490–9578	250	250	6642 with Heater and Thermostat
MXT-29	Tunable	9300–10,000	100	100	Modified 6378 for High and Low Temp. Use
MXT-32	Dual Pre-TR	8500–9600	200	200	30db Signal Reduction
MXT-33	Band Pass TR	8500–9600	10	10	Crystal Protector for High and Low Temp. Operation 1.070″
MXT-34	Dual Band Pass TR	8490–9578	10	10	Crystal Protector 3 Elements
MXT-37	Band Pass TR	8700–8900	0.20	20	50 KC Rep. Rate
MXT-38	Band Pass TR	8700–8900	0.05	5	50 KC Rep. Rate
MXT-39A	Band Pass TR	8490–9610	200	200	1B63A for Severe Environmental Conditions
MXT-46	Band Pass TR	8500–9600	10	10	High Temperature Crystal Protector 200 MW Max. Breakdown
MXT-47	Dual Band Pass TR	8490–9578	200	200	6334 with 100 MW Max. Breakdown
MXT-48	Dual Band Pass TR	8490–9578	500	500	Phase Matching within ±3° used with MXT-49
MXT-49	Band Pass TR	8490–9578	100	100	Phase Matching within ±3° used with MXT-48
MXT-51	Cross Guide Duplexer	9325–9425	100	100	Fixed Tuned
MXT-52	Band Pass TR	8490–9578	10	10	MXT-46 with 150 MW Max. Breakdown
MXT-53	Dual Band Pass TR	8490–9578	200	200	Impedance Input Flange Struted for Vibration
MXT-54	Dual Band Pass TR	8490–9578	500	500	Impedance Input Flange
MXT-56	Band Pass TR	8500–9600	4	4	1.7905 Element Low Loss and Breakdown TR

X BAND

continued

X BAND — TUNABLE — BAND PASS — PRE-TR AND TR TUBES

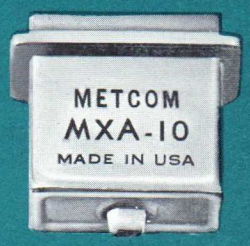
Number Designation	Type	Frequency In Mc	Peak Power In Kw	Average Power In Watts	Brief Description
MXT-58	Band Pass TR	8490–9578	200	200	1B63A with Tapped Holes Both Flanges
MXT-59	Band Pass TR	8490–9578	10	10	MXT-33 with 150μ Adc Ig. Current and Struts
MXT-63	Dual Band Pass TR	9000–9400	40	40	1.070″ Saddle Mount
MXT-77	Band Pass TR	8500–9600	10	10	MXT 33 Electrically with MXT-49 Outline with Non Magnetic Flanges
MXT-78	Cross Guide Duplexer	9325–9425	100	100	MXT-51 with Special Non Magnetic Flanges
MXT-79	Band Pass TR	8490–9610	10	10	MXT-21 Modified
MXT-80	Band Pass TR	8700–8900	0.05	5	MXT-37 Electrically with MXT-46 Outline
MXT-81	Band Pass TR	9345–9405	10	10	High Low Temperature MXT-10 Fast RT
MXT-82	Dual Band Pass TR	8490–9578	200	200	6334 Electrically 7381 Outline with Struts
MXT-83	Band Pass TR	9000–9400	40	40	6795A Electrically MXT-10 Outline
MXT-84	Dual Band Pass TR	8490–9578	250	250	Similar to 6642 with 2 Holes Each Flange
MXT-85	Band Pass TR	9000–9160	100	100	1B63A Outline
MXT-86	Tunable	8600–9600	100	100	1B24A with 250–400 Vdc Voltage Drop
MXT-90	Band Pass	9200–9400	200	200	Low Leakage Crystal Protector
MXT-92	Band Pass TR	9335–9415	2	2	Crystal Protector Narrow Band
MXT-93	Dual Band Pass TR	8500–9600	1	1	Crystal Protector Phase Control
MXT-94	Band Pass TR	8490–9578	200	200	1B63A with fast R.T.
MXT-96	Dual Pass TR	9000–9400	125	125	7381 Outline 3μs R.T. Uniform Ins. Loss ±0.5 db. Phase Control High Temp.
MXT-97	Band Pass TR.	9000–9400	20	20	3μs R.T. Uniform Ins. Loss ±0.5 db. Phase Control High Temp.
MXT-98	Band Pass TR	8490–9578	250	250	MXT-27 without Heater
MXT-99	Band Pass TR	9300–10,000	200	200	Fixed Tuned
MXT-100	Dual Band Pass TR	8490–9578	1	1	Arc Loss 1.0 db
MXT-101	Dual Band Pass TR	8850–9450	0.5	0.5	6334 Outline Crystal Protector
MXT-102	Band Pass TR	8500–9600	2	2	High Low Temp Crystal Protector
MXT-103	Band Pass TR	8490–9578	200	200	Phase Matched within ±5°
MXT-104	Dual Band Pass TR	8490–9578	200	200	Phase Matched within ±5°
MXT-105	Dual Band Pass TR	8490–9578	200	200	6334 Tapped Both Flanges
MXT-106	Band Pass TR	8500–9600	10	10	1B63A Outline Crystal Protector

X BAND

X BAND ATR TUBES

Number Designation	Type	Frequency In Mc	Peak Power In KW	Average Power In Watts	Brief Description
1B35A/MXA-14	ATR	9300	250	250	Fixed Tuned
1B37A/MXA-19	ATR	8750	250	250	Fixed Tuned
5864/MXA-17	ATR	9375	250	250	Fixed Tuned for RG-51/U Guide
5883/MXA-18	ATR	8800	250	250	Fixed Tuned for RG-51/U Guide
6033/MXA-23	ATR	9300	250	250	Fixed Tuned 1B35A with Flange Flat within .003
6034/MXA-24	ATR	8750	250	250	Fixed Tuned 1B37A with Flange Flat within .003
6162/MXA-25	ATR	9080	250	250	Fixed Tuned
6163/MXA-11	ATR	9050	250	250	Fixed Tuned for RG-51/U Guide
6214/MXA-26	ATR	9375	250	250	Fixed Tuned 1B35A with Ignitor
6276/MXA-27	ATR	9300	250	250	Fixed Tuned
6284/MXA-28	ATR	8750	250	250	Fixed Tuned
6304/MXA-29	ATR	9300	250	250	Fixed Tuned Contract Type Flange

continued



X BAND ATR TUBES

Number Designation	Type	Frequency In Mc	Peak Power In KW	Average Power In Watts	Brief Description
6369/MXA-22	ATR	8750	250	250	Fixed Tuned Miniature 1B37A
6393/MXA-15	ATR	9300	250	250	Fixed Tuned Miniature 1B35A
6396/MXA-16	ATR	9300	250	250	Fixed Tuned 6393 in Half Height Guide
6629/MXA-30	ATR	8800	250	250	Fixed Tuned for RG-51/U Guide
6630/MXA-31	ATR	9375	250	250	Fixed Tuned for RG-51/U Guide
6631/MXA-32	ATR	8750	250	250	Fixed Tuned 1B37A with Ignitor
6890/MXA-10	ATR	9300	30	30	Fixed Tuned High Temp. Oper.
MXA-12	ATR	9300	250	250	Fixed Tuned for High and Low Temp. Environment
MXA-13	ATR	9650	30	30	Fixed Tuned for High and Low Temp. Environment
MXA-20	ATR	9375	300	300	Fixed Tuned for High and Low Temp. Environment
MXA-21	ATR	9300	250	250	Fixed Tuned
MXA-33	ATR	9300	250	250	Fixed Tuned Fast R.T.
MXA-34	ATR	8800	250	250	Fixed Tuned
MXA-35	ATR	9300	250	250	Fixed Tuned

X BAND

Ku BAND — TUNABLE — BAND PASS — PRE-TR AND TR TUBES

Number Designation	Type	Frequency In Mc	Peak Power In Kw	Average Power In Watts	Brief Description
6560/MKT-10	Dual Band Pass TR	15,000–17,000	100	100	Fixed Tuned
6649/MKT-19	Band Pass TR	15,000–17,000	100	100	Fixed Tuned
7368/MKT-22	Band Pass TR	15,000–17,000	10	10	Crystal Protector; 3 Elements
7563/MKT-23	Band Pass TR	15,000–17,000	90	135	Fixed Tuned
MKT-12	Band Pass TR	15,000–17,000	100	100	MKT-19 with Phase Control and Cad. Plated Flanges
MKT-13	Dual Band Pass TR	15,000–17,000	100	100	MKT-10 with Cad. Plated Flanges
MKT-14	Dual Band Pass TR	15,000–17,000	100	100	MKT-10 with Phase Control and Cad. Plated Flanges
MKT-15	Dual Band Pass TR	16,000–16,400	100	100	Narrow Band
MKT-24	Dual Band Pass TR	16,000–18,000	135	135	Operates Between −55° and +105°C
MKT-25	Band Pass TR	16,000–17,000	10	10	Crystal Protector Operates Between −55°C and +120°C
MKT-27	Band Pass TR	16,000–17,000	5	5	Crystal Protector Operates Between −55°C and +120°C

Ku BAND

K BAND — TUNABLE — BAND PASS — PRE-TR AND TR TUBES

Number Designation	Type	Frequency In Mc	Peak Power In Kw	Average Power In Watts	Brief Description
1B26/MKT-17	Tunable TR	23,630–24,580	100	100	Integral Cavity
6282/MKT-11	Band Pass TR	23,350–24,950	35	35	Fixed Tuned
6650/MKT-20	Tunable TR	23,630–24,580	24	24	MKT-17 with No Reservoir
MKT-26	Dual Band Pass TR	23,800–24,270	50	50	Fixed Tuned

K BAND

GAS SWITCHING DUPLEXER TUBES Cont.

K BAND

K BAND ATR TUBES

Number Designation	Type	Center Frequency In Mc	Peak Power In Kw	Average Power In Watts	Brief Description
1B36/MKA-10	ATR	24,000	30	30	Fixed Tuned

Ka BAND

Ka BAND — TUNABLE — BAND PASS — PRE-TR AND TR TUBES

Number Designation	Type	Frequency In Mc	Peak Power In Kw	Average Power In Watts	Brief Description
6545/MKT-18	Tunable TR	33,814–35,906	100	100	Integral Cavity
6685/MKT-21	Dual Band Pass TR	33,500–36,250	20	20	Fixed Tuned
MKT-16	Band Pass TR	33,700–35,700	1.5	1.5	Crystal Protector, Operates Between −55°C and +125°C
MKT-28	Bank Pass TR	34,500–35,200	8	10	Crystal Protector, Operates to +75°C

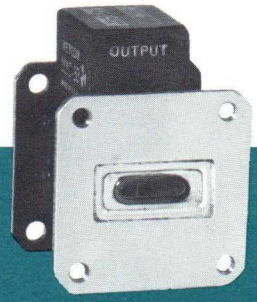
MICROWAVE GASKETS

GASKETS

Number Designation	Type	Brief Description	Number Designation	Type	Brief Description
MCG-10	C Band Dual	Round TR Gasket	MXG-10	X Band Dual	Flat TR Gasket
MCG-11	C Band Single	Round ATR Gasket	MXG-11	X Band Dual	Flat .100 Wall TR Gasket
MCG-12	C Band Single	Flat Copper ATR Gasket	MXG-12	X Band Single	"O" Ring TR Gasket
MCG-13	C Band Single	Flat Wide TR Gasket	MXG-13	X Band Single	Flat Copper ATR Gasket
MCG-14	C Band Single	Flat ATR Gasket	MXG-14	X Band Dual	Flat TR Gasket
MCG-15	C Band Single	Flat Bronze ATR Gasket	MXG-15	X Band Dual	"O" Ring Bell Lab TR Gasket
MKG-10	Ku Band Dual	Flat TR Gasket	MXG-16	X Band Dual	Flat TR Gasket
MLG-10	L Band Single	Woven Braid TR Gasket	MXG-17	X Band Single	"O" Ring TR Gasket
MSG-10	S Band Single	Woven Braid TR Gasket	MXG-18	X Band Dual	Flat Pre-TR Gasket
MSG-11	S Band Single	Pressurizing ATR Gasket	MXG-19	X Band Dual	"O" Ring TR Gasket
MSG-12	S Band Dual	Pressurizing TR Gasket	MXG-20	X Band Single	Flat ATR Gasket
MSG-14	S Band Single	Pressurizing TR Gasket			

CiTRims® RECEIVER PROTECTORS

(Gas switching tubes with built-in fail safe shutter)



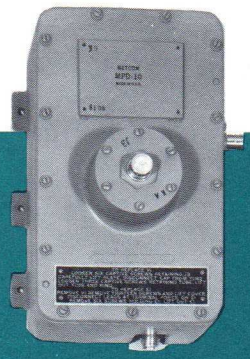
Number Designation	Tube Type	Frequency In Mc	Peak Power In Kw	Average Power In Watts	Solenoid Voltage VDC	Attenuation with CiTRims Closed
6602/MSC-10	Band Pass TR	3100–3500	750	750	17–30	40 db Min.
MSC-11	Dual Band Pass TR	3400–3700	750	750	28	40
6592/MCC-10	Band Pass TR	5200–5530	1000	1000	28	40
6594/MCC-11	Band Pass TR	5395–5905	300	300	28	40
7447/MCT-30	Dual Band Pass TR	5400–5900	700	700	28	40
MCT-25	Dual Band Pass TR	5400–5900	700	700	28	40
MCC-13	Band Pass TR	5395–5905	300	300	28	40
MCC-14	Band Pass TR	5850–6000	30	.030	28	30
MCC-15	Dual Band Pass TR	5400–5900	700	700	115 (VAC)	40
MCC-16	Band Pass TR	5400–5900	100	100	28	30
MCC-17	Band Pass TR	5450–5825	250	250	28	40
6565/MXC-10	Tunable TR	8490–9600	30	30	14	40
6593/MXC-11	Band Pass TR	8490–9578	250	250	28	40
6595/MXC-12	Tunable TR	8490–9600	30	30	3(AC-DC)	40
6596/MXT-30	Dual Band Pass TR	8490–9578	250	250	28	40
6597/MXC-13	Band Pass TR	8490–9578	250	250	6(AC-DC)	40
6598/MXC-23	Dual CiTRim	8500–9600	50	50	28	40
6599/MXA-14	Dual Band Pass TR	8490–9578	250	250	6(AC-DC)	40
6600/MXC-15	Tunable CiTRim	8490–9600	250	250	6(AC-DC)	40
6601/MXC-16	Dual Band Pass TR	8490–9578	500	500	28	40
6613/MXT-43	Dual Band Pass TR	8490–9578	500	500	28	40
6615/MXT-62	Band Pass TR	8490–9578	250	250	28	40
6616/MXC-17	Band Pass TR	8490–9578	250	250	17–30	40
6904/MXC-18	Band Pass TR	8490–9578	250	250	28	40
MXC-19	Band Pass TR	9300–9450	40	40	28	25
MXC-20	Band Pass TR	9250–9500	250	250	28	30
MXC-21	Band Pass TR	9250–9500	250	250	28	30
MXC-22	Band Pass TR	9250–9500	250	250	28	30
MXC-24	Band Pass TR	8200–8600	1	1	28	40
MXC-25	Dual Band Pass TR	8490–9578	250	250	28	40
MXC-26	Dual Band Pass TR	8490–9578	250	250	28	40
MXC-27	Band Pass TR	9250–9500	250	250	28	30
MXC-28	Band Pass TR	9300–9450	40	40	28	25
MXC-29	Band Pass TR	9300–9450	40	40	28	20
MXC-30	Band Pass TR	9550–10050	1	1	28	40
MXC-31	Band Pass TR	9250–9500	100	100	28	30
MXC-32	Band Pass TR	9250–9500	250	250	28	30
MXC-33	Band Pass TR	9250–9500	100	100	28	30
MXT-11	Band Pass TR	8490–9578	250	250	28	22
MXC-34	Band Pass TR	8490–9578	1	1	28	40
MXT-35	Band Pass TR	8500–9500	10	10	28	23
MXT-36	Band Pass TR	9600–10000	1	1	28	40
MXT-44	Band Pass TR	8490–9578	250	250	28	40
MXT-50	Dual Band Pass TR	8500–9600	500	500	28	40
MXT-57	Band Pass TR	8490–9578	250	250	28	40
6588/MKC-10	Band Pass TR	23700–24300	1	1	14	30

S BAND

C BAND

X BAND

SOLID STATE LIMITERS
SOLID STATE GASESOUS LIMITERS AND GASESOUS DUPLEXERS



P BAND

Number Designation	Type	Frequency Mc Pass Band	Peak Power In Kw	Average Power In Watts	Frequency Mc Protection	Brief Description
MPD-10	Strip Line Fixed Tuned	205–230	10	500	200–2000	Mates with Type C Connectors — Gaseous Tube Supplement
MPD-15	Strip Line Fixed Tuned	420–450	15	120	420–450	Mates with Type N Output, 3⅛ Coaxial Input — Gaseous Tube Supplement
MPS-10	Strip Line FixedTuned Diode Limiter	205–230	0.6	.3	200–2000	Subminiature Connectors
MPD-17	Strip Line Fixed Tuned	400–450	10	10	400–3000	Type C and N Connectors
MPD-19	Strip Line Fixed Tuned	400–450	2.5	5	400–3000	Type N Connectors
MPD-16	Strip Line Fixed Tuned	Classified				Type C Connectors

DUPLEXERS

Number Designation	Type	Frequency In Mc	Peak Power in Kw	Average Power In Watts	Description
MPD-13	Broadband Branched Duplexer	Classified			3⅛ Coaxial
MPD-14	Broadband Receiver Protector	300–600	50	3000	WR-2100 Transition to 3⅛ Coaxial
MPD-18	Balanced Broadband Duplexer	400–450	3000	5	3⅛ Coaxial
MLD-10	Receiver Protector	1610	3	0.5	High Q Cavity
MLD-11	Balanced Duplexer	1215–1365	10000	50000	Waveguide Mounted
MLD-12	Branched Duplexer	1205–1215	50	2500	Waveguide
MLD-13	Duplexer	845–855	50	2500	3⅛ Coaxial
MXD-13	Monopulse Duplexer	8490–9578	200	200	Waveguide

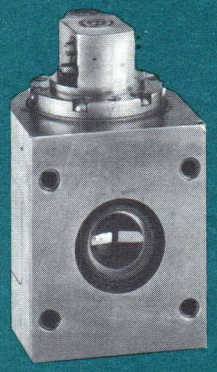
MAGNETRONS

C BAND

Number Designation	Frequency Mc	Peak Output Watts	Peak Anode Voltage KV	Peak Anode Current A	Pulse Duration μs	Duty Cycle	Brief Description
7088/MCM-11	5400–5900	100	1.3	0.80	1.000	.0020	Tunable Pulsed Beacon Application
7414/MCM-10	5500–5600	10,000	7.5	4.00	0.200	.0003	Fixed-Tuned Pulsed
7443/MCM-23	5400–5900	400	2.0	1.10	1.000	.0020	Tunable Pulsed Beacon Application
7444/MCM-13	5400–5900	1000	2.8	1.90	1.000	.0020	Tunable Pulsed Beacon Application
MCM-12	5400–5900	400	2.0	1.10	1.000	.0020	Tunable Pulsed Beacon Application
MCM-14	5400–5900	500	2.2	1.10	1.000	.0020	Tunable Pulsed Beacon Application
MCM-15	5400–5900	400	2.0	1.10	1.000	.0020	Tunable Pulsed Beacon Application
MCM-16	5400–5900	1000	2.8	1.90	1.000	.0020	Tunable Pulsed Beacon Application
MCM-18	5400–5900	700	2.5	1.5	1.000	.0020	Tunable Pulsed Beacon Application
MCM-19	5400–5900	900	2.8	1.90	1.000	.0020	Tunable Pulsed Beacon Application
MCM-20	5500–5800	25	0.5	0.19	1.000	.0020	Tunable Pulsed Beacon Application
MCM-21	5400–5900	550	2.5	1.5	1.000	.0020	Tunable Pulsed Beacon Application
MCM-22	5400–5900	900	3.0	1.90	1.000	.0020	Tunable Pulsed Beacon Application
7443/MCM-23	5400–5900	400	1.9	1.1	1.000	.0020	Tunable Pulsed Beacon Application
MCM-26	5400–5900	1200	2.8	2.0	1.000	.0020	Tunable Pulsed Beacon Application
MCM-27	5400–5900	400	2.2	1.1	1.000	.0020	Tunable Pulsed Beacon Application
MCM-28	5400–5900	1000	2.8	1.9	1.000	.0020	Tunable Pulsed Beacon Application
MCM-30	5400–5900	300	1.3	1.0	1.000	.0020	Tunable Pulsed Beacon Application

C BAND

X BAND

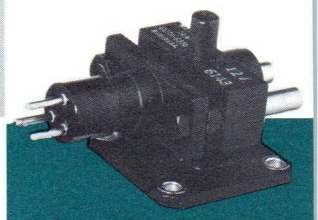


Number Designation	Frequency Mc	Peak Output Watts	Peak Anode Voltage KV	Peak Anode Current A	Pulse Duration μs	Duty Cycle	Brief Description
7445/MXM-19	9100–9500	100	1.3	0.90	1.000	.0020	Tunable Pulsed Beacon Application
MXM-10	9345–9405	800	2.8	1.50	0.250	.0015	Fixed-Tuned Pulsed
MXM-11	9100–9500	100	1.2	0.80	1.000	.0020	Tunable Pulsed Beacon Application
MXM-12	9345–9405	3500	3.7	4.33	0.200	.0015	Fixed-Tuned Pulsed
MXM-13	8500–8900	100	1.2	0.90	1.000	.0020	Tunable Pulsed Beacon Application
MXM-14	8900–9600	100	1.2	0.90	1.000	.0020	Tunable Pulsed Beacon Application
MXM-15	9345-9405	3000	2.8	5.20	0.250	.0015	Fixed-Tuned Pulsed
MXM-16	8800–9600	1000	2.8	2.0	1.000	.0020	Tunable Pulsed Beacon Application
MXM-20	9345–9405	1000	2.6	2.0	1.000	.002	Fixed-Tuned Pulsed
MXM-21	9345–9405	2500	3.0	4.0	1.000	.002	Fixed-Tuned Pulsed
MXM-23	8500–8900	1000	2.6	2.0	1.000	.002	Tunable Pulsed Beacon
MXM-24	8900–9600	2500	3.0	4.0	1.000	.002	Tunable Pulsed Beacon
4J50/MXM-17	9345–9405	185 (min.)	23.0	23.5	3.300	.0010	Fixed Tuned Pulse Type
MXM-26	8900–9500	150 (min.)	1.3	1.0	1.000	.0020	Tunable Pulsed Beacon Application
MXM-28	8900–9400	1000	2.6	2.0	1.000	.0020	Tunable Pulsed Beacon Application
MXM-29	9300–10,000	3000	3.5	4.0	1.000	.0020	Tunable Pulsed Beacon Application
MXM-30	8900–9400	2000	3.15	3.0	1.000	.0020	Tunable Pulsed Beacon Application
MXM-31	9300–10,000	7500	5.8	4.5	1.000	.0020	Air Cooled Tunable Integral Magnet
MXM-32	8800–9500	500	2.3	1.5	1.000	.0020	Air Cooled Tunable Integral Magnet
MXM-33	8900–9500	1000	2.6	1.7	1.200	.0020	Air Cooled Tunable Integral Magnet
MXM-34	9345–9405	2500	3.0	4.0	1.000	.0020	Fixed Tuned Beacon Application
MXM-35	8500–8900	1000	2.6	2.0	1.000	.0020	Tunable Pulsed Beacon Application

X BAND

KLYSTRONS

all KLO



X BAND REFLEX

Number Designation	Frequency Mc	Minimum Power Output mW	Resonator Voltage V	Reflector Voltage Min.	Reflector Voltage Max.	Brief Description
6310/MXK-14	8500–10,000	15	200	−75	−165	Single Screw Tuner
		40	300	−90	−250	Waveguide Coupling, 3 Pin Pee Wee Base and Reflector Cap
6312/MXK-15	8500–10,000	15	200	−75	−165	Single Screw Tuner, Waveguide Coupling 18″ Leads
		40	300	−90	−250	
6314/MXK-16	8500–10,000	15	200	−75	−165	Lock Nut Tuning, Waveguide Output, 18″ Leads
		40	300	−90	−250	
6315/MXK-17	8500–10,000	30	250	−50	−120	Single Screw Tuner, Waveguide Coupling 18″ Leads
6316/MXK-18	8500–10,000	15	200	−75	−165	Lock Nut Tuning Waveguide
		35	300	−90	−250	Output Viking Connector
6781/MXK-11	8500–10,000	15	200	−75	−165	Single Screw Tuner
		40	300	−90	−200	Waveguide Output, Viking Connector
6975/MXK-10	8500–9600	20	300	−55	−135	Heater Current 0.4–0.5A
		30	300	−90	−250	External Cavity Tuning, Waveguide Output 3 Pin Pee Wee Base and Reflector Cap
MXK-12	8500–10,000	15	200	−75	−165	Single Screw Tuner
		40	300	−90	−200	Waveguide Output, Viking Connector Temperature Compensated
MXK-19	8500–10,000	15	210	−75	−165	Single Screw Tuner on Cathode Side of Tube,
		35	310	−90	−200	Completely Insulated Tube and Tuner Deutch Connector
MXK-20	11,000	15	200	−75	−165	6781 Centered at 11,000 KMc
		40	300	−90	−200	
MXK-22	10,000–10,250	100	500	−150	−225	Waveguide Output, Single Screw Tuner 18″ Leads
MXK-23	8500–9500	15	300	−140	−150	Waveguide Output, Mechanically Tuned Output, 3 Pin Pee Wee Base and Reflector Cap
MXK-24A	8500–10,500	50	300	−55	−225	MXK-17 with Special Tuning Screw
MXK-25	8500–10,500	120	350	−50	−300	Molded Flexible Leads, Viking Connector
MXK-26	8100–12,400	100	500	0	−1000	Waveguide Output, Micrometer Tuner
MXK-26B	7100–12,400	100	500	−20	−1000	Waveguide Output,
MXK-27	10,200–12,800	100	500	−20	−1000	Micrometer Tuning
MXK-28	8000–9500	500	500	—	−300	Fixed Tuned, Window Flange Screw
MXK-29	9375–9415	30	250	0	−1000	Single Screw Tuning Waveguide Coupling 3 Pin Pee Wee Base and Reflector Cap
MXK-30	8500–11,000	500	500	−270	−315	Trimmable ±50 Mc
MXK-31	9160–9250	25	300	0	−1000	Modified 6781
		620	500		−380	
MXK-32	8500–10,000	320	500		−200	Very Rugged, External Tuning Cavity
		75	300		−150	
MXK-33	9600–10,800	10	250	−30	−100	Single Screw Tuning Waveguide Coupling
		30	300	−70	−175	3 Pin Pee Wee Base and Reflector Top Cap

X BAND

K BAND REFLEX

Number Designation	Frequency Mc	Minimum Power Output mW	Resonator Voltage V	Reflector Voltage Min.	Reflector Voltage Max.	Brief Description
MKK-10	18,132–18,332	100	700	−150	−400	Waveguide Output, Fixed Tuned, 12″ Leads
MKK-11	13,295–13,305	15,000	3000	—	—	Two Resonator Oscillator, Waveguide Output, Fixed Tuned, Liquid Cooled
MKK-12	13,300	15	500	—	−3000	Liquid Cooled, Low Noise

K BAND

FERRITE ISOLATORS

Number Designation	Type	Frequency Mc	Peak Power In Kw	Average Power In Watts	Insertion Loss db Max	Isolation db Min	Connectors
MCD-10	Coaxial	5400–5900	2	6	1.0	15	TNC
MCD-11	Coaxial	5400–5900	2	6	1.0	15	N
MCD-13	Coaxial	5400–5900	2	6	1.0	15	N and TNC
MXD-10	Coaxial	8200–10000	2	6	1.0	20	N
MCD-12	Coaxial	Classified					N and TNC
MCD-14	Coaxial	Classified					TNC

PRESSURIZING WINDOWS

S BAND

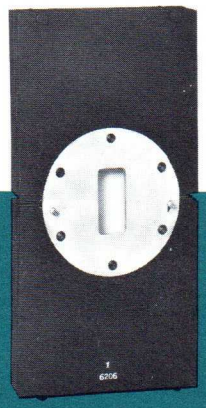
Number Designation	Frequency Coverage	Max. VSWR	Peak Power (Kw)	Pressure Differential (psig)	W/G Size
MSW-1	2675–2925	1.10	750	30	RG-48/U Solderable
MSW-2	2670–2620	1.1	750	30	RG-48/U Solderable Viewing Window
MSW-3	2800–3200	1.20	750	30	Flange Mounted
MSW-4	2600–3700	1.2	1000	30	RG-48/U Flange Mounted
MSW-5	2700–2900	1.20	750	30	Flange Mounted
MSW-6	2675–2925	1.10	1000	30	RG-48/U Solderable
MSW-7	2800–3200	1.20	750	30	Solderable
MSW-8	2600–4000	1.5	1000	30	RG-48/U Flange Mounted
MSW-10	2600–3700	1.30	750	30	RG-48/U Triple Slot Solderable
MSW-11	2000–2400	1.05	10	30	RG-104/U or RG-105/U Ceramic
MSW-12	2600–3000	1.10	750	30	RG-48/U Solderable

S BAND

C BAND

Number Designation	Frequency Coverage	Max. VSWR	Peak Power (Kw)	Pressure Differential (psig)	W/G Size
MCW-1	5200–5900	1.20	500	30	RG-50/U Solderable
MCW-2	5100–5320	1.15	500	30	RG-49/U Solderable
MCW-3	4900–5100	1.15	500	30	RG-49/U Solderable
MCW-4	5250–5850	1.10	800	45	Triple Slot Solderable
MCW-5	5800–8200	1.10	500	30	Triple Slot Solderable
MCW-7	5100–5900	1.25	500	30	RG-49/U Solderable
MCW-8	5450–5825	1.12	750	30	RG-49/U Solderable
MCW-10	4900–5100	1.15	100	30	RG-49/U Solderable
MCW-11	5200–5800	1.50	6000	45	RG-49/U Flange Mounted
MCW-13	5400–5900	1.20	1200	40	RC-95/U Flange Mounted

C BAND



X BAND

Number Designation	Frequency Coverage	Max. VSWR	Peak Power (Kw)	Pressure Differential (psig)	W/G Size
MXW-1	9150–9600	1.10	430	30	Flange Mounted
MXW-2	8600–10000	1.10	430	30	Flange Mounted
MXW-3	9210–9410	1.10	250	30	RG-51/U Solderable
MXW-4	8830–9330	1.10	430	30	Flange Mounted
MXW-5	9200–9420	1.10	250	30	RG-52/U Solderable
MXW-6	8850–9330	1.10	430	30	Flange Mounted
MXW-7	8700–8900	1.10	430	30	Flange Mounted
MXW-8	8645–9555	1.15	430	30	Flange Mounted
MXW-9	6150–6850	1.3	250	30	RG-50/U Solderable
MXW-10	9200–9420	1.10	250	30	RG-52/U Solderable
MXW-11	8530–8750	1.10	250	30	RG-52/U Solderable
MXW-12	8650–8870	1.10	250	30	RG-52/U Solderable
MXW-13	8870–9090	1.10	250	30	RG-52/U Solderable
MXW-14	8990–9210	1.10	250	30	RG-52/U Solderable
MXW-15	9250–9405	1.10	430	50	Flange Mounted
MXW-16	8500–9600	1.12	500	30	Mica Flange Mounted
MXW-17	9400–9600	1.20	250	30	RG-52/U Solderable
MXW-18	8490–9600	1.15	430	30	Flange Mounted
MXW-19	9150–9600	1.10	430	30	Flange Mounted
MXW-20	8490–9578	1.20		30	Mica Speial Mounting
MXW-22	8500–9600	1.12	200	30	Flange Mounted
MXW-23	9200–9420	1.10	250	30	MXW-10 .060 Kovar
MXW-24	10200–10300	1.3	500	30	RG-52/U Solderable
MXW-25	8490–9578	1.12	500	30	RG-51/U Flange Mounted
MXW-26	9200–9420	1.10	250	30	MXW-10 .040 Kovar
MXW-27	9300 ± 20	1.10	250	30	RG-52/U Solderable
MXW-28	8490–9578	1.12	500	30	RG-52/U Mica Flange Mounted
MXW-29	90000	1.2	500	30	RG-52/U Solderable
MXW-30	10250–10500	1.20	8 Ave.	30	RG-51/U Special Flange Mounting
MXW-31	8980	1.10	250	30	RG-52/U Solderable
MXW-32	8490–9600	1.08	200	60/30	RG-52/U Triple Slot Solderable
MXW-33	10200–10600	1.2	2.5 Ave.	30	Mounts to UG-40A/U
MXW-34	8200–12400	1.08		30	RG-52–U Solderable
MXW-35	9900	1.10	150	30	RG-52/U Solderable
MXW-40	8400–9600	1.08	200	30	Triple Slot Solderable
MXW-42	8490–9578	1.15	200	30	Flange Mounted
MXW-43	8500–10240	1.2	200	30	RG-52/U Solderable
MXW-44	8500–9600	1.2	300	30	Triple Slot Solderable
MXW-49	9100	1.15	300	30	Flange Mounted
MXW-36	8500–9600	1.08	3.60	30	RG-52/U Flange Mounted

K BAND

Number Designation	Frequency Coverage	Max. VSWR	Peak Power (Kw)	Pressure Differential (psig)	W/G Size
MKW-10	13300 ± .01%	1.07		15	RG-51/U Solderable
MKW-11	34600–35200	1.10	20 Ave.	30	RG-96/U Solderable
MKW-12	16300–16700	1.10	To Be Specified	15	RG-91/U Solderable

MICROWAVE CAVITIES

Number Designation	Type	Frequency In Mc	OL	Insertion Loss in db MLX	Brief Description
1Q26A/MXQ-11	Reference Cavity	9280	1000–1500	8	Temp. Range — −65 to +100°C
MXQ-12	Reference Cavity	8800	1200–1800	8	Light Weight
MXQ-14	Reference Cavity	8700	1000–2000	10	Dual Mode ±150MC

SPARK GAPS

Number Designation	Breakdown Voltage In KV. Min.	Max.	Number Designation	Breakdown Voltage In KV. Min.	Max.
1B22/MDS-23	2.0	3.0	MDS-27	2.7	3.7
1B31/MDS-32	6.8	9.9	MDS-28	18.0	20.0
1B41/MDS-33	8.7	10.2	MDS-29	32.0	35.0
1B45/MDS-34	14.5	16.5	MDS-30	12.0	14.0
MDS-10	16.0	18.0	MDS-31	1.5	2.5
MDS-12	18.0	20.0	MDS-35	1.0	1.2
MDS-13	8.5	10.0	MDS-36	1.2	2.0
MDS-14	10.5	12.0	MDS-37	3.0	4.0
MDS-15	23.0	27.0	MDS-38	0.1	1.0
MDS-16	5.5	6.5	MDS-39	200	300
MDS-17	14.0	16.0	MDS-40	5.0	6.0
MDS-18	16.0	18.0	MDS-41	14.0	16.0
MDS-19	6.5	7.5	MDS-44	23.0	25.0
MDS-21	19.0	21.0	MDS-55	11.25	13.75
MDS-26	7.2	7.7	MDS-56	24	26

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