

Antenna Specialists® Brand
SERIES ANTENNAS

[illegible]

- Included with Antenna or Replacement Antenna
- Optional/Compatible

Matrix



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TUNING OF ANTENNA WITH DURA-FLEX SPRING

For operation at 138-174 MHz or 406-512 MHz, refer to the charts to find the point closest to the desired frequency, and match it to the correct mount. If equipment is available, the whip may be cut to cover any 20 MHz (or larger as the frequency increases) segment of the 138-512 MHz spectrum. In the region above 400 MHz, the bandwidth can exceed 80 MHz. After tuning, be sure that the set screw bears against whip when tightened.

MOSAIC Cutting Chart For KR731 Whip (3dB gain)

(Whip length in inches)

Freq.	KRMX66	K794	K721(GPS)	K220	KL768
138	50 5/8	50 3/8	50 3/8	50 3/8	50 1/2
141	49 1/8	48 3/4	48 3/4	49	49
145	47 1/4	46 3/4	46 3/4	47 1/4	47 1/8
147	46 3/8	45 3/4	45 3/4	46 1/4	46 1/4
150	45 1/8	44 1/2	44 3/8	45	45
153	43 3/4	43 1/4	43 1/8	43 3/4	43 5/8
155	42 7/8	42 1/4	42 1/4	42 7/8	42 3/4
159	41 1/4	40 3/4	40 3/4	41 1/4	41 1/8
162	40	39 5/8	39 5/8	40	39 7/8
165	38 3/4	38 5/8	38 1/2	38 7/8	38 5/8
168	37 5/8	37 1/2	37 3/8	37 3/4	37 1/2
171	36 1/2	36 1/2	36 3/8	36 5/8	36 3/8
174	35 3/8	35 1/2	35 1/2	35 1/2	35 1/4

MOSAIC Cutting Chart For KRH731 Whip (3dB gain)

(Whip length in inches)

Freq.	KRMX66	K794	K721(GPS)	K220	KL768
210	28 1/4	27 7/8	28 1/8	29	28 3/8
213	27 7/8	27 1/2	27 3/4	28 5/8	28
215	27 3/8	27	27 3/8	28 1/8	27 1/2
217	27	26 5/8	27	27 5/8	27
219	26 1/2	26 1/8	26 5/8	27 1/8	26 1/2
221	26 1/8	25 3/4	26 1/8	26 5/8	26 1/8
223	25 5/8	25 1/4	25 3/4	26 1/8	25 5/8
225	25 1/4	24 7/8	25 3/8	25 3/4	25 1/4
227	24 7/8	24 3/8	25	25 1/4	24 7/8
229	24 3/8	24	24 5/8	24 3/4	24 1/2
230	24	23 1/2	24 1/8	24 3/8	24

MOSAIC Cutting Chart For KRL724 Whip (3dB gain)

(Whip length in inches)

Freq.	KRMX66	K794	K721(GPS)	K220	KL768
445	10 7/8	10 7/8	10 7/8	10 3/4	10 3/4
452	10 1/2	10 3/8	10 5/8	10 1/2	10 3/8
457	10 3/8	10 1/8	10 3/8	10 9/8	10
462	10 1/8	9 7/8	10 1/4	10 1/8	10
466	10	9 5/8	10 1/8	10	9 7/8
470	9 3/4	9 3/8	9 7/8	9 7/8	9 5/8

MOSAIC Cutting Chart For KRA724 Whip (5dB gain)

(Whip length in inches)

MEASURED FROM BOTTOM OF WHIP TO BOTTOM OF COIL

Freq.	KRMX66	K794	K721(GPS)	K220	KL768
406	13	12 3/4	12 3/4	13	12 3/4
410	12 5/8	12 3/8	12 1/2	12 5/8	12 1/2
414	12 3/8	12	12 1/4	12 3/8	12 1/4
418	12	11 5/8	12	12 1/8	12 1/8
420	11 7/8	11 1/2	11 7/8	12	12

MOSAIC Cutting Chart For KRE724 Whip (5dB gain)

(Whip length in inches)

MEASURED FROM BOTTOM OF WHIP TO BOTTOM OF COIL

Freq.	KRMX66	K794	K721(GPS)	K220	KL768
420	11 3/4	11 1/2	11 7/8	11 3/4	11 3/4
422	11 5/8	11 3/8	11 3/4	11 5/8	11 5/8
425	11 1/2	11 1/8	11 1/2	11 1/2	11 3/8
428	11 1/4	10 3/4	11 1/4	11 1/4	11 1/4
430	11 1/8	10 5/8	11	11 1/8	11

MOSAIC Cutting Chart For KR 724 Whip (5dB gain)

(Whip length in inches)

MEASURED FROM BOTTOM OF WHIP TO BOTTOM OF COIL

Freq.	KRMX66	K794	K721(GPS)	K220	KL768
445	12 1/4	12	11 5/8	11 5/8	12
452	11 5/8	11 3/8	11 1/8	11 1/2	11 3/8
457	11 1/8	10 7/8	10 7/8	11 3/8	11
462	10 3/4	10 1/2	10 1/2	11 1/4	10 1/2
466	10 3/8	10 1/8	10 1/4	11 1/8	10 1/4
470	10	9 3/4	10	11	9 7/8

MOSAIC Cutting Chart For KRB724 Whip (5dB gain)

(Whip length in inches)

MEASURED FROM BOTTOM OF WHIP TO BOTTOM OF COIL

Freq.	KRMX66	K794	K721(GPS)	K220	KL768
470	12 3/8	12 3/8	12 1/2	12 1/2	12 5/8
474	12 1/8	11 7/8	12 1/8	12 1/8	12 1/4
478	11 7/8	11 1/2	11 3/4	11 3/4	11 7/8
482	11 1/2	11	11 3/8	11 3/8	11 1/2
486	11 1/4	10 5/8	11	11	11 1/8
490	10 7/8	10 1/8	10 5/8	10 5/8	10 3/4
494	10 5/8	9 3/4	10 3/8	10 3/8	10 3/8

MOSAIC Cutting Chart For KRC724 Whip (5dB gain)

(Whip length in inches)

MEASURED FROM BOTTOM OF WHIP TO BOTTOM OF COIL

Freq.	KRMX66	K794	K721(GPS)	K220	KL768
494	10 3/8	10	12 1/4	12 1/4	10 3/8
498	10 1/8	9 3/4	11 7/8	11 7/8	10 1/8
502	9 7/8	9 1/2	11 1/2	11 1/2	9 7/8
508	9 1/2	9 1/4	11	11	9 1/2
512	9 1/4	9	10 3/4	10 3/4	9 1/4

W H I P C U T T I N G C H A R T S