

Plug-In Elements

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Model Select Element From Table(s)

- 3128A** 1, 2, 3, 4, 6, 14*
- 3170B** 1, 2, 3, 4, 6, 14*
- 43** 1, 2, 3, 4, 6, 14*
- 43P** 1, 2, 3, 4, 5, 6
- 4305A** 4305A Elements, 1 5/8AA
- 4314C** 1, 2, 3, 4, 5, 6, 14*

Model Select Element From Table(s)

- 4391A** 1, 2, 3, 4, 5, 6, 14*
- 4410A, 4412A** (see page 37)
- 4431** 1, 2, 3, 4, 6, 14*
- 4521, 4522** 1, 2, 3, 4, 6, 14*
- 4526** 1, 2, 3, 4, 6, 14*
- 4527** 2 MHz to 512 MHz elements in 1,2, 6, 14*

*Table 14 describes coupler elements used for RF sampling. The instrument meter does not read when these elements are installed, but simply serves as a line section.

Table 1 STANDARD ELEMENTS

Power Range	Frequency Bands (MHz)						
	2-30	25-60	50-125	100-250	200-500	400-800	800-1000
	5 W	—	5A	5B	5C	5D	5E-400
10 W	—	10A	10B	10C	10D	10E-400	10E-800
25 W	—	25A	25B	25C	25D	25E-400	25E-800
50 W	50H	50A	50B	50C	50D	50E-400	50E-800
100 W	100H	100A	100B	100C	100D	100E-400	100E-800
250 W	250H	250A	250B	250C	250D	250E-400	250E-800
500 W	500H	500A	500B	500C	500D	500E-400	500E-800
1000 W	1000H	1000A	1000B	1000C	1000D	1000E-400	1000E-800
2500 W	2500H	—	—	—	2500D	—	—
5000 W	5000H	—	—	—	—	—	—

Table 2 LOW POWER ELEMENTS

Part No.	1 Watt Frequency (MHz)										
	40-50	50-60	60-80	80-90	95-125	110-160	150-250	200-300	275-450	425-850	800-1000
	040-1	050-1	060-1	080-1	095-1	110-1	150-1	200-1	275-1	425-1	801-1

Part No.	2.5 Watt Frequency (MHz)											
	25-30	30-40	40-50	50-60	60-80	80-95	95-150	150-250	200-300	250-450	400-850	800-1000
	025-2	030-2	040-2	050-2	060-2	080-2	095-2	150-2	200-2	250-2	400-2	801-2

Table 3 HIGH-FREQUENCY ELEMENTS, ENTIRE TABLE ±8% FS

Power Range	Frequency Bands (MHz)	
	950-1100	1100-1260
	1 W	1J-950
2.5 W	2.5J-950	2.5J-1100
5 W	5J-950	5J-1100
10 W	10J-950	10J-1100
25 W	25J-950	25J-1100
50 W	50J-950	50J-1100
100 W	100J-950	100J-1100
250 W	250J-950	250J-1100

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Table 4 LOW-FREQUENCY ELEMENTS

		Frequency Band (MHz)
		.45 - 2.5 MHz
Power Range	1000 W	1000P
	2500 W	2500P
	5000 W	5000P
	10000 W	10000P

Table 5 PULSE-POWER ELEMENTS, ENTIRE TABLE $\pm 8\%$ OF FULL SCALE

		Frequency Bands (MHz)							
		2-30	25-60	50-125	100-250	400-800	800-1000	950-1100	1100-1260
Power Range	500 W	—	—	—	—	—	—	500J-950	500J-1100
	1000 W	—	—	—	—	—	—	1000J-950	1000J-1100
	2500 W	—	2500A	2500B	2500C	2500E-400	2500E-800	2500J-950	2500J-1100
	5000 W	—	5000A	5000B	5000C	5000E-400	5000E-800	5000J-950	5000J-1100
	10000 W	10000H	—	10000B	—	10000E-400	10000E-800	—	—

Refer to "Transmission Power Rating Chart" for max. power ratings. Elements are capable of reading peak and average power.

Table 6 MILLIWATT ELEMENTS

		100 mW Frequency (MHz)										
		40-50	72-76	108-136	135-175	320-340	328-336	400-420	420-450	450-470	600-800	800-1000
Cat. No.		430-266	430-2	430-57	430-86	430-205	430-3	430-7	430-208	430-8	430-169	430-263

		250 mW Frequency (MHz)							
		72-76	88-108	105-120	116-126	130-150	190-210	450-470	800-1000
Cat. No.		430-22	430-217	430-20	430-48	430-13	430-65	430-61	430-264

		500 mW Frequency (MHz)												
		72-76	88-108	105-120	120-136	136-150	240-290	290-340	340-360	350-400	400-450	450-500	600-800	800-1000
Cat. No.		430-33	430-247	430-26	430-248	430-249	430-27	430-253	430-157	430-254	430-255	430-256	430-258	430-265

NONDIRECTIONAL SAMPLER ELEMENTS FOR QC-TYPE OR 7/8" EIA LINE

	Frequency Band (MHz)	Nominal Coupling	Max. Main Line Power
4274-025	25-1000	-50 dB \pm 2 dB (-66 dB @ 2 MHz)	500 W
4274-050	100-400	-35 to -48 dB (\pm 1 dB) Adjustable	500 W

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Table 14 DIRECTIONAL COUPLER ELEMENTS FOR QC-TYPE OR 7/8" EIA LINE

Model No.	Frequency Bands (MHz)		
	Frequency Band (MHz)	Nominal Coupling	Max. Main Line Power
400-50	50-100	-40 dB	1 kW
400-75	75-150	-40 dB	1 kW
400-125	125-250	-40 dB	1 kW
400-225	225-450	-40 dB	1 kW
400-400	400-800	-40 dB	1 kW
400-750	750-1250	-40 dB	1 kW

Table 15 DIRECTIONAL COUPLER ELEMENTS FOR 1 5/8" EIA LINE

Model No.	Frequency Bands (MHz)		
	Frequency Band (MHz)	Nominal Coupling	Max. Main Line Power
501-50	50-100	-50 dB	10 kW
501-75	75-150	-50 dB	10 kW
501-125	125-250	-50 dB	10 kW
501-225	225-450	-50 dB	10 kW
501-400	400-800	-50 dB	5 kW

NOTE: For use in any line section including BPME

Table 16 DIRECTIONAL COUPLER ELEMENTS FOR 3 1/8" EIA LINE

Model No.	Frequency Bands (MHz)		
	Frequency Band (MHz)	Nominal Coupling	Max. Main Line Power
553-25	25-40	-55 dB	25 kW
553-50	50-100	-55 dB	25 kW
553-75	75-150	-55 dB	25 kW
553-125	125-250	-55 dB	25 kW
553-225	225-450	-55 dB	25 kW
553-401	400-800	-55 dB	15 kW
553-750	750-1250	-55 dB	10 kW

Table 17 DIRECTIONAL COUPLER ELEMENTS FOR 6 1/8" EIA LINE

Model No.	Frequency Bands (MHz)		
	Frequency Band (MHz)	Nominal Coupling	Max. Main Line Power
606-50	50-100	-60 dB	60 kW
606-75	75-150	-60 dB	60 kW
606-125	125-250	-60 dB	60 kW
606-225	125-250	-60 dB	60 kW
606-400	400-870	-60 dB	60 kW

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Model Select Element From Table(s)

- 3126A** 1 5/8 B, 3 1/8 B, 4 1/16 B, 6 1/8 B
- 3127A** 1 5/8 A, 3 1/8 A, 6 1/8 A
- 3127-035** 1 5/8 A, 3 1/8 A, 4 1/16 A, 6 1/8 A
- 3127-040** 1 5/8 A, 3 1/8 A, 4 1/16 A, 6 1/8 A
- 3127-055** 1 5/8 A, 3 1/8 A, 4 1/16 A, 6 1/8 A
- 3127-075** 1 5/8 B, 3 1/8 B, 4 1/16 B, 6 1/8 B
- 3127-080** 1 5/8 B, 3 1/8 B, 4 1/16 B, 6 1/8 B

Model Select Element From Table(s)

- 3171B020** 1 5/8 BB, 3 1/8 BB, 4 1/16 BB, 6 1/8 BB
- 3171B** 1 5/8 AA, 3 1/8 AA, 4 1/16 AA, 6 1/8 AA
- 6810-220** 1 5/8 A, 3 1/8 A, 4 1/16 A, 6 1/8 A
- 6810-309-7** 1 5/8 A, 3 1/8 A, 4 1/16 A, 6 1/8 A
- 6810-230** 1 5/8 B, 3 1/8 B, 4 1/16 B, 6 1/8 B
- 6810-250** 4 1/16 C, 6 1/8 C
- 6810-307** 1 5/8 B, 3 1/8 B, 4 1/16 B, 6 1/8 B
- 6810-265** 4 1/16 C, 6 1/8 C

Table 1 5/8 A STANDARD ELEMENTS 100 µA

Power Range	Frequency Bands (MHz)		
	2-30	50-125	100-250
	100 W	—	100B1
250 W	—	250B1	250C1
500 W	—	500B1	500C1
1000 W	1000H1	1000B1	1000C1
2500 W	2500H1	2500B1	2500C1
5000 W	5000H1	5000B1	5000C1
10 kW	10KH1	10KB1	10KC1
25 kW	25KH1	25KB1	—

Table 1 5/8 AA STANDARD ELEMENTS 30 µA

Power Range	Frequency Bands (MHz)		
	2-30	50-125	100-250
	100 W	—	100B12
250 W	—	250B12	250C12
500 W	500H12	500B12	500C12
1000 W	1000H12	1000B12	1000C12
2500 W	2500H12	2500B12	2500C12
5000 W	5000H12	5000B12	5000C12
10 kW	10KH12	10KB12	—
25 kW	25KH12	25KB12	—

Table 1 5/8 B STANDARD ELEMENTS 100 µA

Power Range	Frequency Bands (MHz)		
	2-30	50-125	100-250
	300 W	—	300B1
600 W	—	600B1	600C1
1500 W	1500H1	1500B1	1500C1
3000 W	3000H1	3000B1	3000C1
6000 W	6000H1	6000B1	6000C1
15 kW	15KH1	15KB1	—

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Model Select Element From Table(s)

- 3126A** 1 5/8 B, 3 1/8 B, 4 1/16 B, 6 1/8 B
- 3127A** 1 5/8 A, 3 1/8 A, 6 1/8 A
- 3127-035** 1 5/8 A, 3 1/8 A, 4 1/16 A, 6 1/8 A
- 3127-040** 1 5/8 A, 3 1/8 A, 4 1/16 A, 6 1/8 A
- 3127-055** 1 5/8 A, 3 1/8 A, 4 1/16 A, 6 1/8 A
- 3127-075** 1 5/8 B, 3 1/8 B, 4 1/16 B, 6 1/8 B
- 3127-080** 1 5/8 B, 3 1/8 B, 4 1/16 B, 6 1/8 B

Model Select Element From Table(s)

- 3171B020** 1 5/8 BB, 3 1/8 BB, 4 1/16 BB, 6 1/8 BB
- 3171B** 1 5/8 AA, 3 1/8 AA, 4 1/16 AA, 6 1/8 AA
- 6810-220** 1 5/8 A, 3 1/8 A, 4 1/16 A, 6 1/8 A
- 6810-309-7** 1 5/8 A, 3 1/8 A, 4 1/16 A, 6 1/8 A
- 6810-230** 1 5/8 B, 3 1/8 B, 4 1/16 B, 6 1/8 B
- 6810-250** 4 1/16 C, 6 1/8 C
- 6810-307** 1 5/8 B, 3 1/8 B, 4 1/16 B, 6 1/8 B
- 6810-265** 4 1/16 C, 6 1/8 C

Table 1 5/8 BB STANDARD ELEMENTS 30 µA

		Frequency Bands (MHz)		
		2-30	50-125	100-250
Power Range	300 W	300H12	300B12	300C12
	600 W	600H12	600B12	600C12
	1500 W	1500H12	1500B12	1500C12
	3000 W	3000H12	3000B12	3000C12
	6000 W	6000H12	6000B12	6000C12
	15 kW	15KH12	15KB12	—

Table 1 5/8 C STANDARD ELEMENTS 100 µA

		Frequency Bands (MHz)
		50-125
Power Range	8000 W	8000B1

Table 3 1/8 A STANDARD ELEMENTS 100 µA

		Frequency Bands (MHz)		
		2-30	50-125	100-250
Power Range	100 W	—	100B3	100C3
	250 W	—	250B3	250C3
	500 W	—	500B3	500C3
	1000 W	—	1000B3	1000C3
	2500 W	2500H3	2500B3	2500C3
	5000 W	5000H3	5000B3	5000C3
	10 kW	10KH3	10KB3	10KC3
	25 kW	25KH3	25KB3	25KC3
	50 kW	50KH3	50KB3	50KC3
	100 kW	100KH3	—	—

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Table 3 1/8 AA STANDARD ELEMENTS 30 μ A

Power Range	Frequency Bands (MHz)		
	2-30	50-125	100-250
100 W	—	100B32	100C32
250 W	—	250B32	250C32
500 W	500H32	500B32	500C32
1000 W	1000H32	1000B32	1000C32
2500 W	2500H32	2500B32	2500C32
5000 W	5000H32	5000B32	5000C32
10 kW	10KH32	10KB32	10KC32
25 kW	25KH32	25KB32	25KC32
50 kW	50KH32	50KB32	50KC32
100 kW	100KH32	—	—

Table 3 1/8 BB STANDARD ELEMENTS 30 μ A

Power Range	Frequency Bands (MHz)	
	50-125	100-250
600 W	600B32	600C32
1500 W	1500B32	1500C32
3000 W	3000B32	3000C32
6000 W	6000B32	6000C32
15 kW	15KB32	15KC32
30 kW	30KB32	30KC32

Table 3 1/8 C STANDARD ELEMENTS 100 μ A

Power Range	Frequency Bands (MHz)
	100-250
8000 W	8000C3

Table 4 1/16 A STANDARD ELEMENTS 100 μ A

Power Range	Frequency Bands (MHz)	
	50-125	100-250
2500 W	2500B5	2500C5
5000 W	5000B5	5000C5
10 kW	10KB5	10KC5
25 kW	25KB5	25KC5
50 kW	50KB5	50KC5

Table 4 1/16 AA STANDARD ELEMENTS 30 μ A

Power Range	Frequency Bands (MHz)	
	50-125	100-250
2500 W	2500B5	2500C52
5000 W	5000B52	5000C52
10 kW	10KB52	10KC52
25 kW	25KB52	25KC52

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Model Select Element From Table(s)

- 3126A** 1 5/8 B, 3 1/8 B, 4 1/16 B, 6 1/8 B
- 3127A** 1 5/8 A, 3 1/8 A, 6 1/8 A
- 3127-035** 1 5/8 A, 3 1/8 A, 4 1/16 A, 6 1/8 A
- 3127-040** 1 5/8 A, 3 1/8 A, 4 1/16 A, 6 1/8 A
- 3127-055** 1 5/8 A, 3 1/8 A, 4 1/16 A, 6 1/8 A
- 3127-075** 1 5/8 B, 3 1/8 B, 4 1/16 B, 6 1/8 B
- 3127-080** 1 5/8 B, 3 1/8 B, 4 1/16 B, 6 1/8 B

Model Select Element From Table(s)

- 3171B020** 1 5/8 BB, 3 1/8 BB, 4 1/16 BB, 6 1/8 BB
- 3171B** 1 5/8 AA, 3 1/8 AA, 4 1/16 AA, 6 1/8 AA
- 6810-220** 1 5/8 A, 3 1/8 A, 4 1/16 A, 6 1/8 A
- 6810-309-7** 1 5/8 A, 3 1/8 A, 4 1/16 A, 6 1/8 A
- 6810-230** 1 5/8 B, 3 1/8 B, 4 1/16 B, 6 1/8 B
- 6810-250** 4 1/16 C, 6 1/8 C
- 6810-307** 1 5/8 B, 3 1/8 B, 4 1/16 B, 6 1/8 B
- 6810-265** 4 1/16 C, 6 1/8 C

Table 4 1/16 B STANDARD ELEMENTS 100 µA

Power Range	Frequency Bands (MHz)	
	50-125	100-250
	1500 W	1500B5
3000 W	3000B5	3000C5
6000 W	6000B5	6000C5
15 kW	15KB5	15KC5
30 kW	30KB5	30KC5
60 kW	60KB5	60KC5

Table 4 1/16 BB STANDARD ELEMENTS 30 µA

Power Range	Frequency Bands (MHz)	
	50-125	100-250
	1500 W	1500B52
3000 W	3000B52	3000C52
6000 W	6000B52	6000C52
15 kW	15KB52	15KC52
30 kW	30KB52	30KC52
60 kW	60KB52	60KC52

Table 4 1/16 C STANDARD ELEMENTS 100 µA

Power Range	Frequency Bands (MHz)	
	50-125	100-250
	8000 W	8000B5
80 kW	80KB5	80KC5

Table 6 1/8 A STANDARD ELEMENTS 100 µA

Power Range	Frequency Bands (MHz)		
	2-30	50-125	100-250
	1000 W	—	1000B6
2500 W	—	2500B6	2500C6
5000 W	—	—	5000C6
10 kW	10KH6	10KB6	10KC6
25 kW	25KH6	25KB6	25KC6
50 kW	50KH6	50KB6	50KC6
100 kW	10KH6	100KB6	100KC6
250 kW	250KH6	—	—

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Table 6 1/8 AA STANDARD ELEMENTS 30 μ A

Power Range	Frequency Bands (MHz)		
	2-30	50-125	100-250
250 W	—	—	250C62
500 W	—	500B62	500C62
1000 W	1000H62	1000B62	1000C62
2500 W	2500H62	2500B62	2500C62
5000 W	—	5000B62	5000C62
10 kW	10KH62	10KB62	10KC62
25 kW	—	25KB62	25KC62
50 kW	50KH62	50KB62	50KC62
100 kW	100KH62	100KB62	100KC62

Table 6 1/8 B STANDARD ELEMENTS 100 μ A

Power Range	Frequency Bands (MHz)	
	50-125	100-250
3000 W	3000B6	3000C6
6000 W	6000B6	6000C6
15 kW	15KB6	15KC6
30 kW	30KB6	30KC6
60 kW	60KB6	60KC6

Table 6 1/8 BB STANDARD ELEMENTS 30 μ A

Power Range	Frequency Bands (MHz)	
	50-125	100-250
3000 W	3000B62	3000C62
6000 W	6000B62	6000C62
15 kW	15KB62	15KC62
30 kW	30KB62	30KC62
60 kW	60KB62	60KC62

Table 6 1/8 C STANDARD ELEMENTS 100 μ A

Power Range	Frequency Bands (MHz)	
	50-125	100-250
8000 W	8000B6	8000C6
80 kW	80KB6	80KC6