

Variable Capacitance Diodes Application (For AM)

AM用 電圧可変容量ダイオード 用途別一覧

Type	Application	Operating voltage (V)	Layout	*1 Capacitance (pF)	Capacitance ratio	Wide band coverage	Q Min.	*2 $\Delta C$ Max.	Package	Surface mounting	Taping	
KV1226	Tun.	25	2 element	C <sub>1V</sub> : 510 ~ 620 C <sub>25V</sub> : 16 ~ 26	20 Min.	●	200 1V, 1MHz	2% *3	CB2-4			
KV1230Z	VCO	8	1 element	C <sub>1V</sub> : 445 ~ 535 C <sub>8V</sub> : 22.5 ~ 30.5	16.5 ~ 22		200 1V, 1MHz		CB1-2			
KV1234Z	Tun.		4 element						2%	CB4-8		
KV1235Z	Tun.		3 element						2%	CB3-6		
KV1236Z	Tun.		2 element						1%	CB2-4		
KV1260	Tun.		2 element, 1 chip						1%	CB1-3		
KV1260-2	Tun.		4 element, 2 chip						1%	CB2-6		
KV1260M	Tun.		2 element, 1 chip						1%	MFP8	●	●
KV1280-1	Tun.	7	2 element, 1 chip	C <sub>1V</sub> : 428 ~ 506 C <sub>4V</sub> : 92 C <sub>7V</sub> : 20 ~ 28	17 Min.	●	200 1V, 1MHz	1%	CB1-3			
KV1280-2	Tun.		4 element, 2 chip						1.5%	CB2-6		
KV1281-1	VCO		1 element							CB1-2		
KV1281-2	Tun.		2 element, 2 chip						1%	CB2-4		
KV1281-3	Tun.		3 element, 3 chip						2%	CB3-6		
KV1296M	Tun.	8	6 element, 1 chip	C <sub>1V</sub> : 620 ~ 720 C <sub>8V</sub> : 30 ~ 44	16 Min. 17 Typ.		200 1V, 1MHz	2.5%	MFP8	●	●	
KV1530	VCO	9	1 element	C <sub>1V</sub> : 450 ~ 530 C <sub>9V</sub> : 24 (Typ.)	12 Min.		250 1V, 1MHz		SOT23	●	●	
KV1550	Tun.	4.5	2 element, 1 chip	C <sub>1V</sub> : 400 ~ 445 C <sub>4.5V</sub> : 21 ~ 26	16.5 ~ 20		200 1V, 1MHz	2%	SOT23L-3	●	●	
KV1550A-1	Tun.		2 element, 1 chip						2%	CB1-3		
KV1550NT	Tun.		2 element, 1 chip						2%	TO92NT		●
KV1551	VCO		1 element							SOT23	●	●
KV1551A-1	VCO		1 element							CB1-2		
KV1551A-2	Tun.		2 element, 2 chip						2%	CB2-4		
KV1551A-3	Tun.		3 element, 3 chip						2%	CB3-6		
KV1560	Tun.	8	2 element, 1 chip	C <sub>1V</sub> : 428 ~ 506 C <sub>4.5V</sub> : 100 C <sub>8V</sub> : 20 ~ 27.5	17 Min.	●	200 1V, 1MHz	1%	SOT23L-3	●	●	
KV1560NT	Tun.		2 element, 1 chip						1%	TO92NT		●
KV1561	VCO	8	1 element	C <sub>1V</sub> : 428 ~ 506 C <sub>4.5V</sub> : 100 C <sub>8V</sub> : 20 ~ 27	17 Min.		200 1V, 1MHz		SOT23	●	●	
KV1561A-1	VCO	8	1 element	C <sub>1V</sub> : 410 ~ 506 C <sub>4.5V</sub> : 100 C <sub>8V</sub> : 20 ~ 27.5	17 Min.	●	200 1V, 1MHz		CB1-2			
KV1561A-2	Tun.		2 element, 2 chip						1%	CB2-4		
KV1561A-3	Tun.		3 element, 3 chip						1.5%	CB3-6		
KV1562M	Tun.	8	4 element, 1 chip	C <sub>1V</sub> : 428 ~ 506 C <sub>4.5V</sub> : 100 C <sub>8V</sub> : 20 ~ 27	17 Min.	●	200 1V, 1MHz	1.2%	MFP8	●	●	
KV1563A	Tun.		3 element, 1 chip						1.1%	CB1-4		
KV1563M	Tun.		3 element, 1 chip						1.1%	MFP8	●	●
KV1563BM	Tun.		3 element, 1 chip						2%	MFP8	●	●
KV1580	Tun.	6.5	2 element, 1 chip	C <sub>1V</sub> : 424 ~ 475 C <sub>6.5V</sub> : 50 C <sub>6.5V</sub> : 21 ~ 27	17 Min. 17.5 Typ.	●	200 1V, 1MHz	1%	SOT23L-3	●	●	
KV1580A-1	Tun.		2 element, 1 chip						1%	CB1-3		
KV1580NT	Tun.		2 element, 1 chip						1%	TO92NT		●
KV1581	VCO		1 element							SOT23	●	●
KV1581A-2	Tun.		2 element, 2 chip						1%	CB2-4		
KV1581A-3	Tun.		3 element, 3 chip						1%	CB3-6		
KV1582M	Tun.		4 element, 1 chip						1.2%	MFP8	●	●
KV1583A	Tun.		3 element, 1 chip						1.3%	CB1-4		
KV1583BM	Tun.		3 element, 1 chip						2%	MFP8	●	●

\*1 With the capacity indicated on one element  
容量値は1つのダイオードの値です。

\*2 V<sub>R</sub> = 1V

\*3 C > 50pF

Variable Capacitance Diodes Application (For FM)

FM用 電圧可変容量タイオード 用途別一覧

Type	Application	Operating voltage (V)	Layout	*1 Capacitance (pF)	Capacitance ratio	Wide band coverage	rS Max.	Δ C Max.	Package	Surface mounting	Taping
KV1300NT	Tun.	8	Twin type	C <sub>2V</sub> : 69.13 ~ 79.61 C <sub>8V</sub> : 23.38 ~ 27.29	2.1 ~ 2.6 V <sub>R</sub> (V) 1/9		0.5 3V, 100MHz		TO92NT		●
KV1301A-1	VCO	9	Single type	C <sub>3V</sub> : 28 ~ 33.2 C <sub>9V</sub> : 12.0 ~ 14.0	2.0 ~ 2.7		0.5 30pF, 50MHz	1% *2 1.5% *2	CB1-2		
KV1301A-2	Tun.		Single type, 2 chip						CB2-4		
KV1301A-3	Tun.		Single type, 3 chip						CB3-6		
KV1310A-1	Tun.	8	Twin type	C <sub>2V</sub> : 40.59 ~ 48.99 C <sub>8V</sub> : 16.00 ~ 21.32	2.2 ~ 2.5		0.5 2V, 70MHz	3% 3%	CB1-3		
KV1310A-2	Tun.		Twin type, 2 chip						CB2-6		
KV1310A-3	Tun.		Twin type, 3 chip						CB3-9		
KV1310NT	Tun.		Twin type						TO92NT		●
KV1320	Tun.	25	Twin type	C <sub>7V</sub> : 39.79 ~ 46.16 C <sub>25V</sub> : 13.93 ~ 16.49	2.57 ~ 3.03		0.5 7V, 70MHz	3%	TO92		●
KV1330A-1	Tun.	9	Twin type	C <sub>2V</sub> : 67.91 ~ 80.38 C <sub>6V</sub> : 25.73 ~ 33.63 C <sub>9V</sub> : 15.07 ~ 20.50	3.7 ~ 5.0	●	0.5 2V, 70MHz		CB1-3		
KV1330A-2	Tun.	9	Twin type, 2 chip	C <sub>2V</sub> : 69.3 ~ 78.8 C <sub>6V</sub> : 25.2 ~ 34.3 C <sub>9V</sub> : 15.35 ~ 20.1	3.7 ~ 5.0	●	0.5 2V, 70MHz	3% 3%	CB2-6		
KV1330A-3	Tun.		Twin type, 3 chip						CB3-9		
KV1330NT	Tun.	9	Twin type	C <sub>2V</sub> : 69.14 ~ 77.43 C <sub>6V</sub> : 25.05 ~ 34.57 C <sub>9V</sub> : 15.44 ~ 20.10	3.7 ~ 5.0	●	0.5 2V, 70MHz		TO92NT		●
KV1340A-1	Tun.	8	Twin type	C <sub>2V</sub> : 41.7 ~ 48.6 C <sub>8V</sub> : 27.0 (Typ.)	1.55 ~ 1.85		0.5 2V, 70MHz	3%	CB1-3		
KV1340A-2	Tun.		Twin type, 2 chip						CB2-6		
KV1340A-3	Tun.		Twin type 3 chip						CB3-9		
KV1350A-3	Tun.	9	Twin type, 3 chip	C <sub>1V</sub> : 59.15 ~ 65.90 C <sub>6V</sub> : 17.67 ~ 23.54 C <sub>9V</sub> : 10.77 ~ 13.26	4.6 Min.	●	Q Min. 60 3V, 100MHz		CB3-9		
KV1350NT	Tun.		Twin type						TO92NT		●
KV1360NT	Tun.	4.5	Twin type	C <sub>1V</sub> : 86.1 ~ 98.0 C <sub>4.5V</sub> : 19.90 ~ 24.5	3.7 Min.	●	0.6 1.5V, 100MHz		TO92NT		●
KV1362A-1	Tun.	6.5	Single type	C <sub>1V</sub> : 41.7 ~ 48.6 C <sub>6.5V</sub> : 13.9 ~ 18.2	4.7 Min.		0.5 1.5V, 100MHz		CB1-2		
KV1370NT	Tun.	4.5	Twin type	C <sub>1V</sub> : 65.8 ~ 74.2 C <sub>4.5V</sub> : 12.0 ~ 14.8	5.0 Min V <sub>R</sub> (V) 1/5	●	0.5 1.5V, 100MHz		TO92NT		●
KV1371NT	VCO	4.5	Single type	C <sub>1V</sub> : 35 (Typ.) C <sub>4.5V</sub> : 7.7 (Typ.)	5.0 Min. V <sub>R</sub> (V) 1/5		1.0 1.5V, 100MHz		TO92NT		●
KV1372A-1	VCO	4.5	Single type	C <sub>1V</sub> : 65.8 ~ 74.2 C <sub>4.5V</sub> : 12.0 ~ 14.8	5.0 Min. V <sub>R</sub> (V) 1/5		0.5 1.5V, 100MHz		CB1-2		
KV1382A-1	VCO	8	Single type	C <sub>2V</sub> : 131 ~ 171 C <sub>8V</sub> : 16 ~ 23	6.5 ~ 9.5		1.0 3V, 70MHz		CB1-2		
KV1400	Tun.	8	Twin type	C <sub>2V</sub> : 69.13 ~ 79.61 C <sub>8V</sub> : 23.38 ~ 27.29	2.1 ~ 2.6 V <sub>R</sub> (V) 3/8		0.5 3V, 100MHz		SOT23	●	●
KV1410	Tun.	8	Twin type	C <sub>2V</sub> : 41.33 ~ 46.29 C <sub>8V</sub> : 16.05 ~ 21.25	2.0 ~ 2.6		0.5 2V, 70MHz		SOT23	●	●
KV1420	Tun.	25	Twin type	C <sub>7V</sub> : 39.79 ~ 46.16 C <sub>25V</sub> : 13.93 ~ 16.49	2.57 ~ 3.03		0.5 7V, 70MHz		SOT23	●	●
KV1430	Tun.	9	Twin type	C <sub>2V</sub> : 69.14 ~ 77.43 C <sub>6V</sub> : 25.05 ~ 34.57 C <sub>9V</sub> : 15.44 ~ 20.10	3.7 ~ 5.0	●	0.5 2V, 70MHz		SOT23	●	●
KV1440	Tun.	8	Twin type	C <sub>2V</sub> : 43.0 ~ 47.6 C <sub>8V</sub> : 26.6 (Typ.)	1.65 ~ 1.75		Q Min. 100 3V, 100MHz		SOT23	●	●
KV1450	Tun.	9	Twin type	C <sub>1V</sub> : 59.15 ~ 65.90 C <sub>6V</sub> : 17.67 ~ 23.54 C <sub>9V</sub> : 10.77 ~ 13.26	4.6 Min.	●	Q Min. 60 3V, 100MHz		SOT23	●	●
KV1460	Tun.	4.5	Twin type	C <sub>1V</sub> : 86.1 ~ 98.0 C <sub>4.5V</sub> : 19.9 ~ 24.5	3.7 Min.	●	0.6 1.5V, 100MHz		SOT23	●	●
KV1470	Tun.	4.5	Twin type	C <sub>1V</sub> : 65.8 ~ 74.2 C <sub>4.5V</sub> : 12.0 ~ 14.8	5.0 Min. V <sub>R</sub> (V) 1/5	●	0.5 1.5V, 100MHz		SOT23	●	●
KV1471	VCO	4.5	Single type	C <sub>1V</sub> : 32.65 ~ 37.87 C <sub>4.5V</sub> : 6.2 ~ 9.2	5.0 Min. V <sub>R</sub> (V) 1/5		1.0 1.5V, 100MHz		SOT23	●	●
KV1472	VCO	5	Single type	C <sub>1V</sub> : 65.8 ~ 74.2 C <sub>5V</sub> : 12.5 (Typ.)	5.0 Min.		0.5 1.5V, 100MHz		SOT23	●	●
KV1480	Tun.	8	Twin type	C <sub>2V</sub> : 150 ~ 200 C <sub>6V</sub> : 30 ~ 44.0 C <sub>8V</sub> : 14.5 ~ 21.5	7.5 ~ 11	●	1.0 3V, 70MHz		SOT23	●	●

\*1 With the capacity indicated on one element \*2 V<sub>F</sub> = 3V  
容量値は1つのダイオードの値です。

### Variable Capacitance Diodes Application (For Communications Equipment)

通信機用 電圧可変容量ダイオード 用途別一覧

Type	Application	Operating voltage (V)	Layout	*1 Capacitance (pF)	Capacitance ratio	rS Max.	Package	Surface mounting	Taping
KV1811E	VCO	8	Single type	C <sub>1v</sub> : 19.51 ~ 23.55 C <sub>8v</sub> : 2.14 ~ 2.92	7.8 Typ.	1.8 8pF, 470MHz	URD	●	●
KV1812	VCO	8	Single type	C <sub>1v</sub> : 14.50 ~ 17.50 C <sub>8v</sub> : 1.64 ~ 2.24	7.4 Min.	2.1 6pF, 470MHz	SOT23	●	●
KV1821	VCO	25	Single type	C <sub>1v</sub> : 18.4 (Typ.) C <sub>25v</sub> : 2.64 ~ 3.04	6.8 Typ.	1.0 14pF, 470MHz	SOT23	●	●
KV1823	VCO	25	Single type	C <sub>1v</sub> : 10.50 C <sub>25v</sub> : 2.05 ~ 2.35	4.2 Min.	1.0 14pF, 470MHz	SOT23	●	●
KV1832C	VCO	4	Single type	C <sub>1v</sub> : 15.4 ~ 17.9 C <sub>4v</sub> : 3.60 ~ 5.05	3.4 Min.	0.7 7pF, 470MHz	SRD	●	●
KV1851	VCO	10	Single type	C <sub>1v</sub> : 20 ~ 36 C <sub>10v</sub> : 2.1 ~ 3.9	6.0 Min.		SOT23	●	●
KV1851A-1	VCO	10	Single type	C <sub>1v</sub> : 20 ~ 36 C <sub>10v</sub> : 2.1 ~ 3.9	6.0 Min.		CB1-2		

\*1 With the capacity indicated on one element 容量値は1つのダイオードの値です

### Package パッケージ一覧

URD



SRD



SOT23



SOT23L-3



MFP8



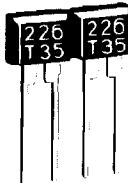
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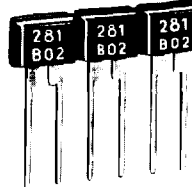
CB1-2



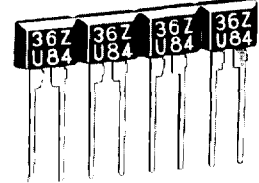
CB2-4



CB3-6



CB4-8



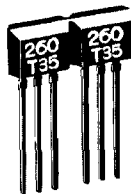
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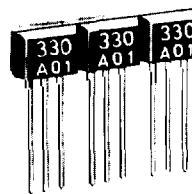
CB1-3



CB2-6



CB3-9



CB1-4

