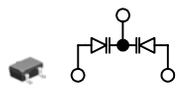
4.5V series variable capacitance diode for FM tuning
4.5V系FMチューナ用電圧可変容量ダイオード



KV1770R
(SOT23C-3)

KV1770S
(SOT23-3)

FEATURES

- ■ Included Twin Element
- ■ Very Small Tolerance of Element Being Next Device To Each Other
- ■ Excellent Linearity of The CV Curve
- ■ Extra Large Capacitance Ratio: A=5.00 to
- ■ Very Small Series Resistance: R_S=to 0.5Ω
- ■ ツインタイプ素子1組搭載
- ■ 小さい隣接デバイス間容量偏差
- ■ CV特性の優れた直線性
- ■ 極めて大きな容量変化比: A=5.00~
- ■ 小さい直列抵抗: R_S=~0.5Ω

CLASSIFICATION

C \ Rank		1	2	3
C_1	MIN	65.80	68.27	70.74
	MAX	69.25	71.72	74.20

SELECTION CHARTS

Type	$V_{R.MAX}$	Capacitance(pF)				Capacitance ratio				Rs_{MAX}	C tolerance	I_F	P_D	T_{STG}	T_{op}
	(V)	Min.	Typ.	Max.	V_R(V)	Min.	Typ.	Max.	V_R(V)		ΔC_{MAX}	(mA)	(mW)	(°C)	(°C)
KV1770R	18	65.80 12.00	70.00 13.40	74.20 14.80	1 4.5	5.0			1/5	0.5 @1.5V 100MHz		50	100	-55 to 150	-55 to 85
KV1770S	18	65.80 12.00	70.00 13.40	74.20 14.80	1 4.5	5.0			1/5	0.5 @1.5V 100MHz		50	100	-55 to 150	-55 to 85

* Capacitance measured in parallel connections.
容量値は、Back to Back Typeの2つのダイオードの平均値です。

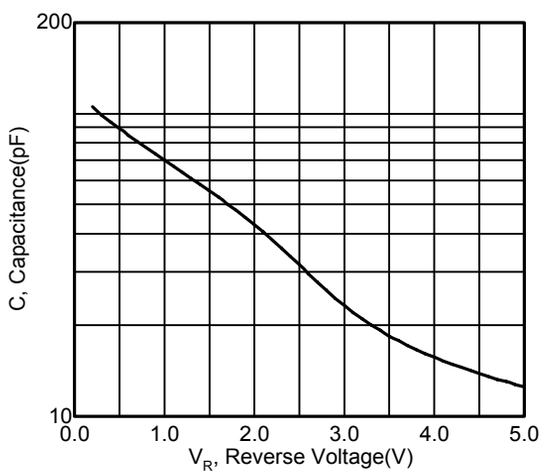
* Diode Capacitance measured with Agilent 4279A or equivalent instruments (at OSC level 20±5mVrms)
容量測定器は、Agilent 4279A又は相当品。OSCレベル 20±5mVrms。

* Resistance meter is Agilent 4291B or equivalent instruments.
直列抵抗測定器は、Agilent 4291B又は相当品。

* The tolerance of element that is next to each other in same reel is within 3% at C_2, C_5 and C_8.
同一リール内で隣接する素子のC_2、C_5、C_8の容量偏差は3.0%以内。

TYPICAL CHARCTERISTICS

■ Capacitance versus Reverse Voltage
逆方向電圧対容量 f=1MHz, T_A=25°C



■ Series Resistance versus Frequency
周波数対直列抵抗 V_R=1.5V, T_A=25°C