

TKV1750A

9V Series VCD for FM Tuning
9V系FM用VCD

Feature

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|---|----------------------------------|
| ■ Included Twin Element | ■ ツインタイプ素子1組内蔵 |
| ■ Very Small Tolerance of Element Being Next Device To Each Other | ■ 小さい隣接デバイス間容量偏差 |
| ■ Excellent Linearity of the C-V Curve | ■ C-V特性の優れた直線性 |
| ■ Extra Large Capacitance Ratio: A=4.6 to | ■ 極めて大きな容量変化比: A=4.6~ |
| ■ Very Small Series Resistance: R_S = to 0.3 Ω | ■ 小さい直列抵抗: R_S = ~0.3 Ω |
| ■ Reverse Voltage V_R =14V | ■ 逆方向電圧 V_R =14V |
| ■ Forward Current I_F =50mA | ■ 順方向電流 I_F =50mA |
| ■ Operating Temp. Range T_{OP} =-55 to +85°C | ■ 動作温度範囲 T_{OP} =-55~+85°C |

Electrical Characteristics

Part Name	$V_{R,MAX}$ (V)	Capacitance(pF)				Capacitance Ratio				$R_{S,MAX}$
		Min.	Typ.	Max.	V_R (V)	Min.	Typ.	Max.	V_R (V)	
TKV1750A	14	60.30		65.90	1	4.6			1/9	0.3@3V,100MHz
		17.67		23.54	6					
		10.77		13.26	9					

- * The value of capacitance is the average of 2 back to back type diodes.
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_1 , C_6 and C_9 .
同一リール内で隣接する素子の C_1 、 C_6 、 C_9 の容量偏差は 3%以内。

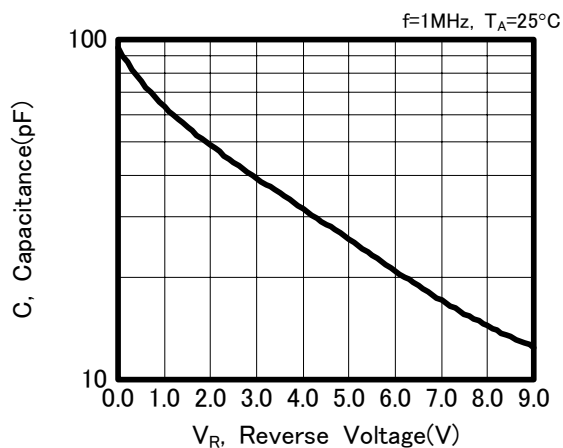
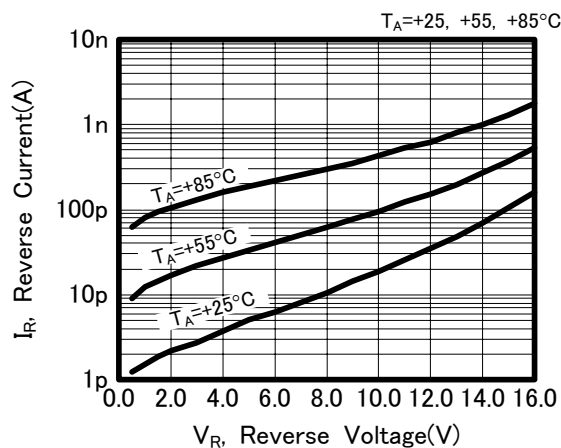
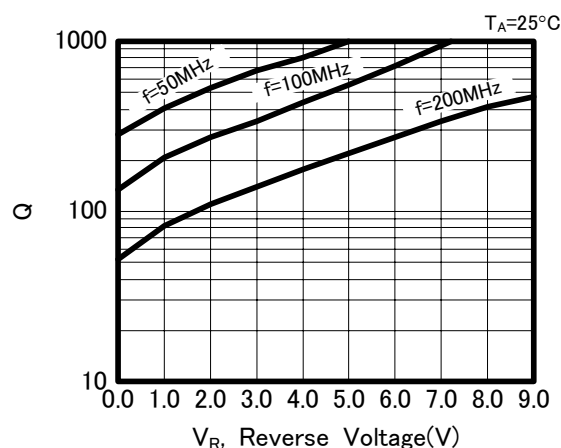
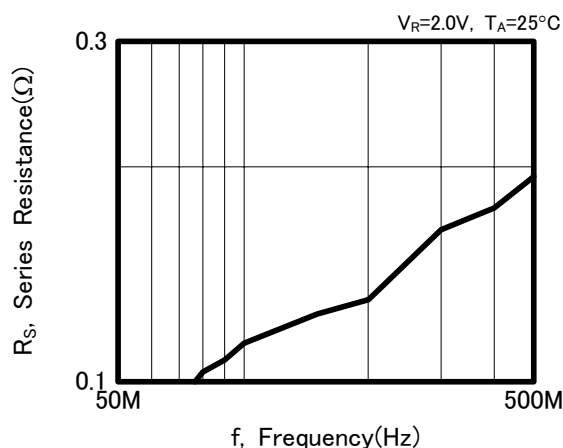
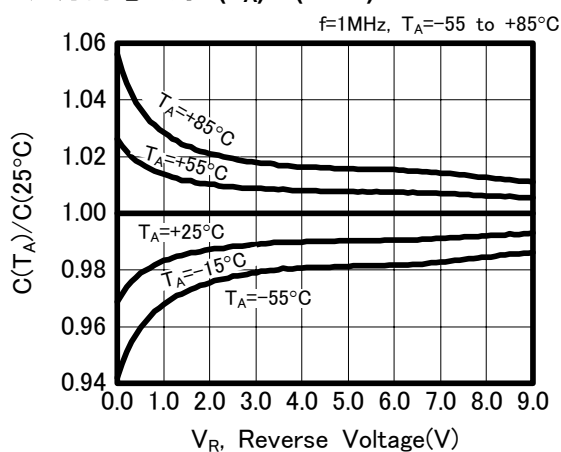
Classification

C	Rank1	Rank2	Rank3	Rank4
$C_{1,MIN}$ (pF)	60.30	61.50	62.75	64.00
$C_{1,MAX}$ (pF)	62.10	63.35	64.65	65.90

Ordering Guide, Pin Layout, Marking

Part Name	Ordering Name	Pin Layout	Marking	Description	Order Size
TKV1750A	TKV1750AS2G0L			TKV1750A: Part Name S2: SOT23-3 Package G0: PB-Free L: Tape&Reel, Left	3,000 pcs. /Reel
TKV1750A	TKV1750AS3G0L			TKV1750A: Part Name S3: SOT23C-3 Package G0: PB-Free L: Tape&Reel, Left	3,000 pcs. /Reel

Typical Characteristics

Capacitance vs. Reverse Voltage
 逆方向電圧対容量

Reverse Current vs. Reverse Voltage
 逆方向電圧対逆電流

Q vs. Reverse Voltage
 逆方向電圧対Q

Series Resistance vs. Frequency
 周波数対直列抵抗

 $C(T_A)/C(25^\circ\text{C})$ vs. Reverse Voltage
 逆方向電圧対 $C(T_A)/C(25^\circ\text{C})$

Capacitance Temp. Coefficient vs. Reverse Voltage
 逆方向電圧対温度係数
