

# TUNING VARACTORS

## 20-VOLT AXIAL LEADED TUNING VARACTORS

### FEATURES

- High Q and High Tuning Ratio
- Guaranteed Tuning Ratio and Temperature
- Superior Reproducibility
- High Reliability (state-of-the-art passivation plus hermetic packaging)

### ELECTRICAL SPECIFICATIONS

T<sub>A</sub> = 25°C

C <sub>T</sub> DIODE CAPACITANCE (pF)±10% @VR=4Vdc, f=1 MHz	MODEL NUMBER	Q, FIGURE OF MERIT V <sub>R</sub> =4Vdc, f=50MHz MIN	TR, TUNING RATIO C2/C20, f=50MHz MIN/TYP/MAX	PACKAGE*
6.8	KV620	300	2.0/2.5/3.2	D0-7
8.2	KV622	300	2.0/2.5/3.2	D0-7
10	KV624	300	2.0/2.5/3.2	D0-7
12	KV626	300	2.0/2.6/3.2	D0-7
15	KV628	250	2.0/2.6/3.2	D0-7
18	KV630	250	2.0/2.6/3.2	D0-7
20	KV632	250	2.0/2.6/3.2	D0-7
22	KV634	250	2.0/2.6/3.2	D0-7
27	KV636	200	2.0/2.6/3.2	D0-7
33	KV638	200	2.0/2.6/3.2	D0-7
39	KV640	200	2.0/2.6/3.2	D0-7
47	KV642	200	2.0/2.6/3.2	D0-7
56	KV644	150	2.0/2.6/3.2	D0-7
68	KV646	150	2.0/2.6/3.2	D0-7
82	KV648	150	2.0/2.6/3.2	D0-7
100	KV650	150	2.0/2.6/3.2	D0-7
120	KV652	100	2.0/2.6/3.2	D0-14
150	KV654	100	2.0/2.6/3.2	D0-14
180	KV656	80	2.0/2.6/3.2	D0-14
200	KV658	80	2.0/2.6/3.2	D0-14
220	KV660	60	2.0/2.6/3.2	D0-14

PARAMETER	TEST CONDITIONS	UNIT	MIN	TYP	MAX
REVERSE BREAKDOWN VOLTAGE V <sub>BR</sub>	IR=10mAdc	Vdc	20	25	-
REVERSE LEAKAGE CURRENT I <sub>R</sub>	VR=15 Vdc	μAdc	-	-	0.1
SERIES INDUCTANCE L <sub>S</sub>	f=250 MHz, L = 1/16"	nH	-	5	-
CASE CAPACITANCE C <sub>C</sub>	f=1 MHz, L = 1/16"	pF	-	0.25	-
DIODE CAPACITANCE TEMPERATURE COEFFICIENT TC <sub>C</sub>	VR=4 Vdc, F=1 MHz	ppm/°C	-	300	500

MAXIMUM RATINGS		
PARAMETER	VALUE	UNIT
REVERSE VOLTAGE	20	Vdc
DEVICE DISSIPATION @T <sub>A</sub> =25°C	400	mW
DERATE ABOVE 25°C	2.67	mW/°C
OPERATING JUNCTION TEMPERATURE RANGE	+175	°C
STORAGE TEMPERATURE RANGE	-65 TO +200	°C

NOTES: \*OTHER PACKAGE STYLES AVAILABLE

**LORAL**

Microwave - FSI