

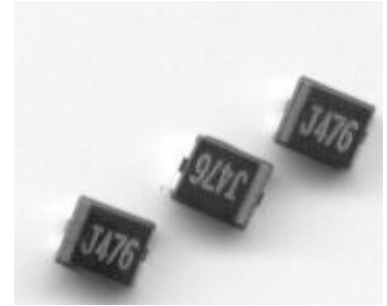
# TS20

### FEATURES

- Molded case available in five case codes
- Compatible with all popular "High Volume" automatic pick and equipment
- Optical character recognition qualified

### SPECIFICATIONS

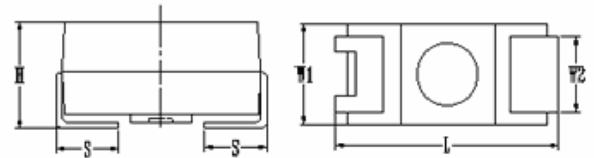
OPERATING TEMPERATURE	-55 ~+ 125°C (>85°C applying derated voltage)
RATED VOLTAGE RANGE	4~50VDC
CAPACITANCE TOLERANCE	K:(±10%), M:(±20%), (20°C, 120HZ/100HZ)
LEAKAGE CURRENT	$I_o \leq 0.01CRUR$ OR $0.5\mu A(20^\circ C)$ (whichever is greater) Measured after 5 minutes application of rated voltage
LOAD LIFE	CR-( $\mu F$ )Nominal Capacitance; UR-(V) Rated Voltage 85°C, After applying rated voltage for 2000 hours at 85°C. Capacitance change: within ±10% of the initial value Dissipation factor : Not more than 150% of the specified value Leakage current : Not more than the specified value



TEMPERATURE CHARACTERISTIC	Dissipation Factor(°C)			Capacitance Change			Leakage Current	
	-55	+85	+125	-55	+85	+125	+85	+125
	1.5tg δ			+12	+10	+10	10I <sub>o</sub>	12I <sub>o</sub>

### Diagram of Dimensions

Case Size		L±0.2	W1±0.2	H±0.2	S±0.2	W2±0.2
P	2012	2.0	1.25	1.2	0.55	1.1
A	3216	3.2	1.6	1.6	0.8	1.2
B	3528	3.5	2.8	1.9	0.8	2.2
C	6032	6.0	3.2	2.5	1.3	2.2
D	7343	7.3	4.3	2.8	1.3	2.4



### Case Size, Derated Voltage & Surge Voltage

U <sub>R</sub>	V	4	6.3	10	16	20	25	35	50
	Code	G	J	A	C	D	E	V	T
U <sub>D</sub> (V)		2.5	4	6.3	10	13	16	23	32
SV(V)		5	7	11.5	18	23	29	40	57
CR		Case Size (standard/minature/Super miniature)							
$\mu F$	Code								
0.1	104(Z*)							A	A
0.15	154(X*)							A	B/A
0.22	224(R*)							A	B/A
0.33	334(Q*)					P	A	A	B/A
0.47	474(S*)				P	P	A	B/A	C
0.68	684(W*)			P	A/P	A	A	B/A	C
1.0	105(A*)		P	A/P	A/P	A	B/A	B	C
1.5	155(E*)		A/P	A/P	B/A/P	B/A	B	C/B	D/C
2.2	225(J*)	A/P	A/P	A/P	B/A/P	B/A	B	C/B	D/C
3.3	335(N*)	A/P	A/P	B/A/P	B/A	B	C/B	C	D
4.7	475(F*)	A	B/A/P	B/A	C/B/A	C/B	D/C/B	D/C	D
6.8		B/A	B/A	C/B/A	C/B	D/C/B	D/C	D	D
10		B/A	B/A	C/B/A	C/B	D/C	D/C	D	
15		C/B/A	C/B	D/C/B	D/C/B	D/C	D/C	D	
22		C/B/A	D/C/B	D/C/B	D/C/B	D/C/B	D/C	D/C	
33		D/C/B	D/C/B	D/C/B	D/C	D/C	D		
47		D/C/B	D/C/B	D/C	D/C	D	D		
68		D/C/B	D/C/B	D/C	D	D			
100		D/C	D/C	D/C	D				
150		D/C	D/C	D					
220		D/C	D/C	D					
330		D	D						

Marking code for case size p