



# Surface Mount Miniature Tantalum Capacitors

## 278 Series Specifications



### Part Number Determination

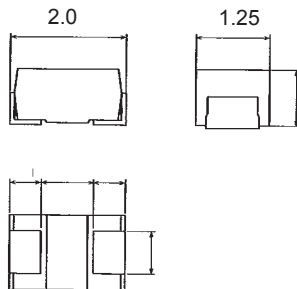
278M2002104KR					
278	M	2002	104	K	R
TYPE	FAILURE RATE	VOLTAGE	CAPACITANCE	TOLERANCE	PACKAGING
278= Ultra Mini (0805)	L=2%/1000h M=1%/1000h E=1%/1000h N=0.5%/1000h P=0.1%/1000h R=0.01%/1000h A=N/A	4001=4V 1002=10V 1602=16V 2002=20V 2502=25V 3502=35V 5002=50V	In pF  2 Significant digits + 1 multiplier  104=0.1uF 105=1uF 686=68uF	F=±1% G=±2% J=±5% K=±10% M=±20%	R=7" Reel / Anode band away from sprocket holes N=13" Reel / Anode band away from sprocket holes  L=7" Reel / Anode band next to the sprocket holes P=13" Reel / Anode band next to the sprocket holes

### Electrical Characteristics

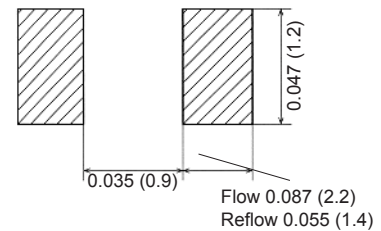
Part Number	Cap (uF)	Case Code	Max DC Leakage Current (uA)			Max Dissipation Factor			
			25°C	85°C	125°C	-55°C	25°C	85°C	125°C
278M 2002 104K	0.1	S	0.5	5	6.3	0.08	0.04	0.04	0.05
278M 2002 154K	0.15	S	0.5	5	6.3	0.08	0.04	0.04	0.05
278M 2002 224K	0.22	S	0.5	5	6.3	0.08	0.04	0.04	0.05
278M 2002 334K	0.33	S	0.5	5	6.3	0.08	0.04	0.04	0.05
278M 2002 474K	0.47	S	0.5	5	6.3	0.08	0.06	0.06	0.06
278M 2002 684K	0.68	S	0.5	5	6.3	0.12	0.08	0.08	0.10
278M 1602 105K	1.0	S	0.5	5	6.3	0.12	0.08	0.08	0.10
278M 1002 155K	1.5	S	0.5	5	6.3	0.12	0.08	0.08	0.10
278M 6301 225K	2.2	S	0.5	5	6.3	0.12	0.08	0.08	0.10
278M 4001 335K	3.3	S	0.5	5	6.3	0.12	0.08	0.08	0.10
278M 1002 475K	4.7	S	0.5	5	6.3	0.15	0.08	0.08	0.10
278M 6301 685K	6.8	S	0.5	5	6.3	0.15	0.08	0.08	0.10
278M 6301 106K	10	S	0.6	6	7.9	0.15	0.06	0.06	0.06

Rated Voltage Code						
Voltage	2.5	4	6.3	10	16	20
Code	e	g	j	A	C	D
Capacitance Code						
Capacitance	0.1	0.15	0.22	0.33	0.47	0.68
Code	A	E	J	N	S	W
Capacitance	1	1.5	2.2	3.3	4.7	6.8
Code	A	E	J	N	S	W
Capacitance	10	15	22	33	47	68
Code	A	E	J	N	S	W

### Package Dimensions (mm)



### Land Pattern in (mm)



### Package Marking

