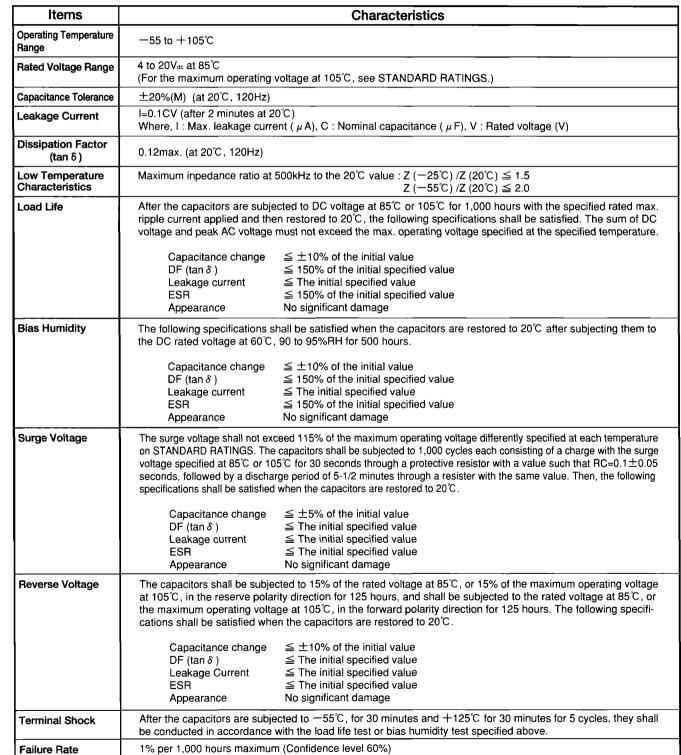
# Solid Electrolyte, High C Series + 105°C, Surface Mount Solid Electrolyte, High CV Product

- Manganese dioxide is used as electrolyte.
- Excellent high frequency characteristics. Maximum ESR is specified at 500kHz.
- Longer life than a liquid electrolyte type.
- High heat resistance.
- 50% increasing capacitance in comparison with MFX series.
- For reflow soldering and precautions for users, see page 52.

#### SPECIFICATIONS



IEC 384-18-1 (Fixed Aluminum Electrolytic Chip Capacitors With Solid Electrolyte)

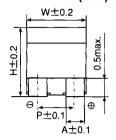


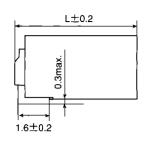
Others

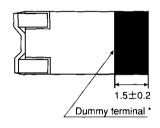


# Alchip-MFZ Series

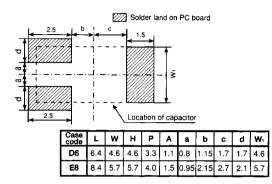
# **◆ DIMENSIONS (mm)**







# Recommended solder land on PC board

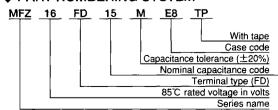


\* The dummy terminal on the plastic body is coated with hardened copper paste. It is not purpose to lessen mechanical shock and vibration, but it is for preventing the body from sliding on the PC board during reflow soldering. (Applying mechanical stress to a soldered capacitor may cause the body to detach from the PC board.)

### **STANDARD RATINGS**

Rated voltage (Vdc)	Capaci- tance ( $\mu$ F)	Case code	Max. ESR 20°C 500kHz (mΩ)	Operating temperature (°C)	Max. operating voltage (Vdc)	Max. ripple current (mArms)		
						500kHz	300kHz	100kHz
4	27		270	86 to 105	3.2	320	300	270
		D6		61 to 85	4	500	480	440
				46to 60	4	570	540	490
				to 45	4	660	630	570
	56	E8	180	86 to 105	3.2	390	370	350
				61 to 85	4	580	550	530
				46to 60	4	700	660	630
				to 45	4	810	770	740
6.3	22	D6	270	86 to 105	5	320	300	270
				61 to 85	6.3	500	480	440
				46to 60	6.3	570	540	490
				to 45	6.3	660	630	570
	47		180	86 to 105	5	390	370	350
		E8		61 to 85	6.3	580	550	530
				46to 60	6.3	700	660	630
				to 45	6.3	810	770	740
10	15	D6	270	86 to 105	8	320	300	270
				61 to 85	10	500	480	440
				46to 60	10	570	540	490
				to 45	10	660	630	570
	33	E8	180	86 to 105	8	390	370	350
				61 to 85	10	580	550	530
				46to 60	10	700	660	630
				to 45	10	810	770	740
16	6.8	D6	425	86 to 105	13	130	110	100
				61 to 85	16	190	170	150
				46to 60	16	220	200	180
				to 45	16	250	230	200
	15	E8	270	86 to 105	13	320	300	270
				61 to 85	16	500	480	440
				46to 60	16	570	540	490
				to 45	16	660	630	570
20	3.3	E8	270	86 to 105	16	320	300	270
				61 to 85	20	500	480	440
				46to 60	20	570	540	490
				to 45	20	660	630	570

## **◆ PART NUMBERING SYSTEM**



Capacitance	Code
6.8 μ F	6R8
10 <i>μ</i> F	10
33 μ F	33