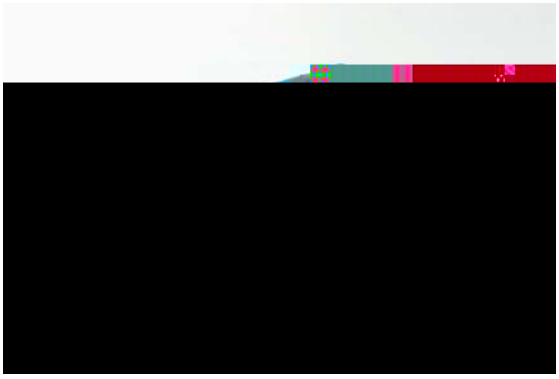
Overview

Applications

embedded microprocessor systems with fash memory.

Benefits

- Wide range of temperature from −25°C to +60°C and −25°C to +70°C

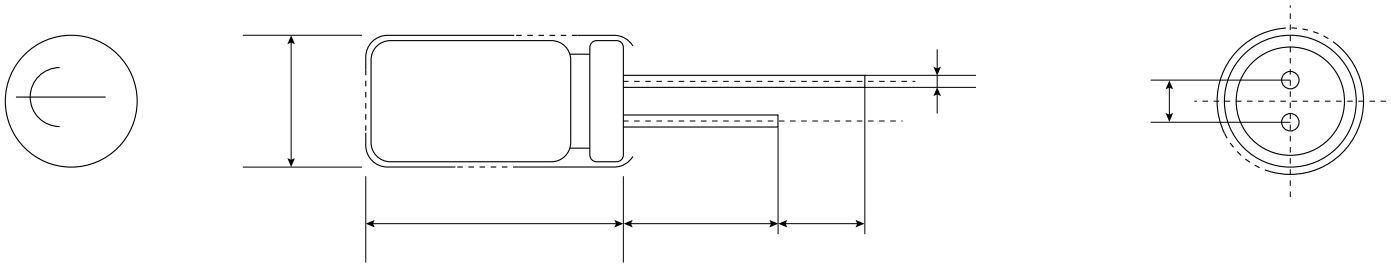


Part Number System

HVZ	0E	105	N	F	-LT
		represent signifcant fgures. Third digit specifes number of			

Dimensions – Millimeters

1) Standard Termination (all types except -LT)



Performance Characteristics

Environmental Compliance

RoHS Complia

Table 1 – Ratings & Part Number Reference

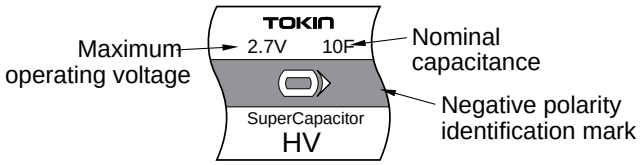
Part Number	Maximum Operating Voltage (VDC)	Nominal Capacitance (F)	Maximum ESR at 1 kHz (mΩ)	Maximum Current at 30 Minutes (mA)	Weight (g)

Speci f cations

Specifications cont'd

Item		HV Type	Test Conditions (conforming to JIS C 5160-2)
			0 Ω 1,000+48 (+48/−0)
		≤ 200% of initial ratings	
		≤ 200% of initial ratings	

Marking



Packaging Quantities

Part Number	Bulk Quantity per Box

List of Plating & Sleeve Type

a. Iron + copper base + lead-free solder plating (Sn-1Cu)
b. SUS nickel base + copper base + reflow lead-free solder plating (100% Sn, reflow processed)
c. Iron + copper base + leaf-free solder plating (100% Sn)

Series	Part Number	Plating	**Sleeve**

Recommended Pb-free solder : Sn/3.5Ag/0.75Cu
Sn/3.0Ag/0.5Cu
Sn/0.7Cu
Sn/2.5Ag/1.0Bi/0.5Cu

Measurement Conditions

Capacitance (Charge System)
Capacitance is calculated from expression (9) by measuring the charge time constant (τ) of the capacitor (C). Prior to

τ: Time from start of charging until Vc becomes 0.632 Eo (V)

Rc: See table below (Ω).

Charge Resistor Selection Guide

Measurement Conditions cont'd

Capacitance (Discharge System)

Notes on Using Supercapacitors or Electric Double-Layer Capacitors (EDLCs)

1. Circuitry Design

1.2 Fail rate in the field

Based on field data, the fail rate is calculated at approximately 0.006 Fit. We estimate that unreported failures are ten

Useful life of the supercapacitor will be significantly affected if used near heat emitting items (coils, power transistors

1.9 Supercapacitors fitted with pressure valves

HV Series supercapacitors are fitted with pressure valves. Make an opening in the top of the pressure valve to avoid

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Disclaimer

All product specifications, statements, information and data (collectively, the “Information”) in this datasheet are subject to change. The customer is responsible for

applications, but are not intended to constitute – and KEMET specifically disclaims – any warranty concerning suitability for a specific customer application or use.

(such as installation of protective circuitry or redundancies) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or