

This product is completed the lead-free and RoHS.



# DATA SHEET

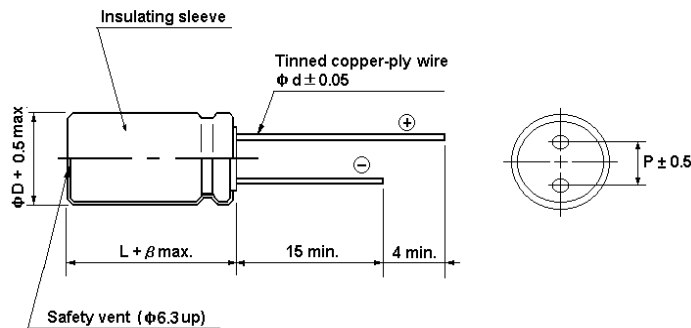


**SAMWHA ELECTRIC CO., LTD.**

## Aluminum Electrolytic Capacitors

Date : 2015. 10. 21.  
 Ident-No : SC-ARC551  
 Part No : SD 1E 477 M 1012M PA

### Dimensions



$\Phi D$	10
L	12.5
P	5.0
$\Phi d$	0.6
$\beta$	2.0

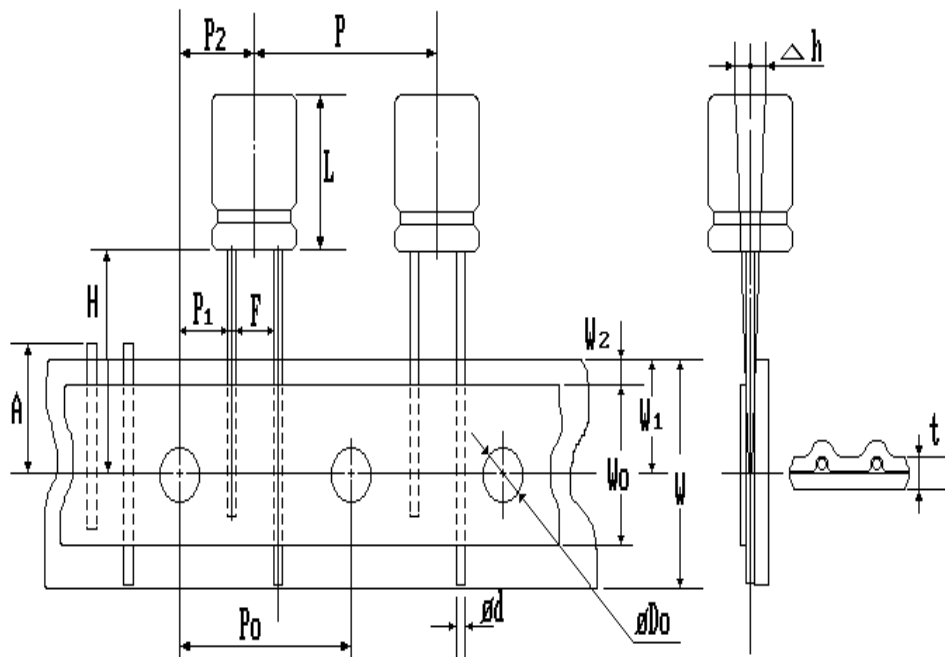
*Dimensions of  $\Phi D$  & L*

Capacitance at 120Hz, 20 °C	470 $\mu F$
Tolerance at 120Hz, 20 °C	$\pm 20$ %
Rated Voltage	25 V
Surge Voltage	32 V
Ripple current at 120Hz, 85 °C	550 mA rms
Leakage current after 2 minute	117.5 $\mu A$
Dissipation factor ( $\tan \delta$ ) at 120Hz, 20 °C	0.16
Equivalent series resistance(E.S.R) at 120Hz, 20 °C	0.45 $\Omega$
Temperature range	-40 ~ +85 °C
Load life at 85 °C	2000 hours
Shelf life at 85 °C	1000 hours

Approved

G. H. Um

Technical team manager



Unit : mm

Description	Symbol	Tolerance	DIMENSIONS	
Case diameter	$\phi D$	+0.5	10	12.5
Body height	L	max.	27.0	27.0
Lead dia.	$\phi d$	$\pm 0.05$	0.6	0.6
Body pitch	P	$\pm 1.0$	12.7	15.0
Feeding hole pitch	$P_0$	$\pm 0.2$	12.7	15.0
Feeding hole alignment	$P_1$	$\pm 0.7$	3.85	5.0
Feeding hole alignment	$P_2$	$\pm 1.0$	6.35	7.5
Lead center spacing	F	+0.6/-0.2	5.0	5.0
Body inclination	$\Delta H$	$\pm 2.0$	0	0
Tape width	W	$\pm 0.5$	18.0	18.0
Adhesive tape width	$W_0$	min.	12.5	12.5
Feeding hole alignment	$W_1$	$\pm 0.5$	9.0	9.0
Adhesive tape margin	$W_2$	max.	2.0	2.0
Length from seating plane	H	$\pm 0.5$	18.5	18.5
Feeding hole dia.	$\phi D_0$	$\pm 0.2$	4.0	4.0
Total tape thickness	t	$\pm 0.2$	0.7	0.7
Cut lead height	A	max.	11.0	11.0
Taping Code	Ammo	$\oplus$ leader	PA	PH