

2SW270M Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	2SW270M-DG
Manufacturer	Rubycon
Manufacturer Product Number	2SW270M
Description	CAP ALUM POLY 270UF 20% 2V SMD
Detailed Description	270 μ F 2 V Aluminum - Polymer Capacitors 2917 (7343 Metric) 9mOhm 2000 Hrs @ 105°C

This model 2SW270M is available at DiGi Electronics.

DiGi Electronics offers a global database of semiconductor and electronic component datasheets.

We welcome your inquiries regarding pricing, lead time, or other product-related questions.

 [Request a Quote](#)

 [Datasheet Search](#)



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

2SW270M

Series:

PC-CON, SW

Type:

Polymer

Tolerance:

±20%

ESR (Equivalent Series Resistance):

9mOhm

Operating Temperature:

-55°C ~ 105°C

Applications:

General Purpose

Lead Spacing:

-

Height - Seated (Max):

0.114" (2.90mm)

Mounting Type:

Surface Mount

Manufacturer:

Rubycon

Product Status:

Obsolete

Capacitance:

270 µF

Voltage - Rated:

2 V

Lifetime @ Temp.:

2000 Hrs @ 105°C

Ratings:

-

Ripple Current @ High Frequency:

3.5 A @ 100 kHz

Size / Dimension:

0.287" L x 0.169" W (7.30mm x 4.30mm)

Surface Mount Land Size:

0.287" L x 0.169" W (7.30mm x 4.30mm)

Package / Case:

2917 (7343 Metric)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8532.22.0020

Moisture Sensitivity Level (MSL):

3 (168 Hours)

ECCN:

EAR99



导电性高分子铝固体电解电容器

CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS

PC-CON

SLG 系列
SERIES
SWZ/SW 系列
SERIES

◆ 特 长 / FEATURES

SLG : 超薄型品 / Ultra Low Profile

SW : 高容量、低ESR品 / High Capacitance, Low ESR

SWZ : 高容量、超低ESR品 / High Capacitance, Ultra Low ESR

- RoHS对应品 / RoHS Compliance
- 可以进行无铅回流焊接 (260°C、10秒) : (对应MSL3)
Lead free reflow soldering is available (260°C, 10sec) : (Available for MSL3)



◆ 规格表 / SPECIFICATIONS

系列名称 Series	SLG	SWZ	SW	
	1.1mm	1.9mm	2.7mm	2.9mm
工作温度范围 Category Temperature Range(°C)	-55 ~ +105°C			
额定电压范围 Rated Voltage Range(V.DC)	2~6.3	2~10	2~8	2~6.3
静电容量范围 Capacitance Range(μF)	47~220	47~330	68~220	120~470
静电容量允许差 Capacitance Tolerance(20°C, 120Hz)	±20%			
漏电流(施加额定电压5分钟后) Leakage Current(μA/after 5 minutes)	≤0.04CV			
损失角正切值(tan δ) Dissipation Factor(20°C, 120Hz)	≤0.1			
等效串联电阻(ESR) Equivalent Series Resistance(ESR) (mΩ/20°C, 100kHz)	9~15	4.5~25	9~18	9
最大允许纹波电流 Maximum Allowable Ripple Current(mA r.m.s/100kHz)	2,100~2,700	1,800~3,500	2,500~3,500	
突波电压 Surge Voltage	额定电压的1.25倍 Rated voltage X1.25			
耐久性 (105°C、2000小时、施加额定电压) Endurance (105°C, 2000hrs, Rated Voltage applied)	ΔC	初期值的±20%以内 Within ±20% of the initial value		
	tan δ	初期规格值的200%以下 ≤200% of initial specified value		
	LC	初期规格值以下 ≤initial specified value		
高温高湿(固定) (60°C, 90%RH, 无负荷500小时) Damp heat(Steady state) (60°C, 90%RH, 500hrs, No-applied voltage)	ΔC	初期值的-20%~+60%以内 Within -20%~+60% of the initial value	初期值的-20%~+40%以内 Within -20%~+40% of the initial value	
	tan δ	初期规格值的200%以下 ≤200% of initial specified value		
	LC	初期规格值的300%以下 ≤300% of initial specified value		

作为模拟数据在我司网站提供了PC-CON SPICE模型(netlist)。在各种电路设计时会有用。

Our website offers the SPICE model (netlist) of PC-CON as the data for simulations. Please make use of various circuit design.

有关车载对应、请另外询问。

For automotive use (AEC-Q200), please inquire our sales offices.

Rubycon

导电性高分子铝固体电解电容器

CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS

PC-CON

◆产品一览表 / ITEM

系列 Series	额定电压 (V.DC)	静电容量 Cap(μF)	尺寸 Size(mm)			ESR (mΩ)	额定 纹波电流 (mAr.m.s)	编号 Part No.	
			L	W	H				
SLG	2 (d)	100	7.3	4.3	1.1	9	2,700	2SLG100M	
		150	7.3	4.3	1.1	9	2,700	2SLG150M	
		180	7.3	4.3	1.1	9	2,700	2SLG180M	
		220	7.3	4.3	1.1	9	2,700	2SLG220M	
	2.5 (e)	100	7.3	4.3	1.1	9	2,700	2.5SLG100M	
		150	7.3	4.3	1.1	9	2,700	2.5SLG150M	
		180	7.3	4.3	1.1	9	2,700	2.5SLG180M	
	4(g)	68	7.3	4.3	1.1	15	2,100	4SLG68M	
6.3(j)	47	7.3	4.3	1.1	15	2,100	6SLG47M		
SWZ	2 (d)	270	7.3	4.3	1.9	9	3,000	2SWZ270M R09	
		270	7.3	4.3	1.9	6	3,500	2SWZ270M R06	
		330	7.3	4.3	1.9	15	2,700	2SWZ330M R15	
		330	7.3	4.3	1.9	9	3,000	2SWZ330M R09	
		330	7.3	4.3	1.9	6	3,500	2SWZ330M R06	
		330	7.3	4.3	1.9	4.5	3,500	2SWZ330M R05	
	2.5 (e)	220	7.3	4.3	1.9	9	3,000	2.5SWZ220M R09	
		220	7.3	4.3	1.9	6	3,500	2.5SWZ220M R06	
		270	7.3	4.3	1.9	9	3,000	2.5SWZ270M R09	
		270	7.3	4.3	1.9	6	3,500	2.5SWZ270M R06	
		330	7.3	4.3	1.9	15	2,700	2.5SWZ330MR15	
		330	7.3	4.3	1.9	9	3,000	2.5SWZ330MR09	
		330	7.3	4.3	1.9	6	3,500	2.5SWZ330MR06	
		4 (g)	180	7.3	4.3	1.9	9	3,000	4SWZ180M R09
	6.3 (j)	220	7.3	4.3	1.9	9	3,000	4SWZ220M R09	
		120	7.3	4.3	1.9	9	3,000	6SWZ120M R09	
		150	7.3	4.3	1.9	15	2,700	6SWZ150M R15	
		150	7.3	4.3	1.9	9	3,000	6SWZ150M R09	
	10 (A)	47	7.3	4.3	1.9	25	1,800	10SWZ47MR25	
	SW	2 (d)	220	7.3	4.3	2.7	9	3,500	2SW220M
			270	7.3	4.3	2.9	9	3,500	2SW270M
			330	7.3	4.3	2.9	9	3,500	2SW330M
			390	7.3	4.3	2.9	9	3,500	2SW390M
470			7.3	4.3	2.9	9	3,500	2SW470M	
2.5 (e)		180	7.3	4.3	2.7	9	3,500	2.5SW180M	
		220	7.3	4.3	2.9	9	3,500	2.5SW220M	
		270	7.3	4.3	2.9	9	3,500	2.5SW270M	
		330	7.3	4.3	2.9	9	3,500	2.5SW330M	
		390	7.3	4.3	2.9	9	3,500	2.5SW390M	
		150	7.3	4.3	2.7	9	3,500	4SW150M	
4 (g)		180	7.3	4.3	2.9	9	3,500	4SW180M	
		220	7.3	4.3	2.9	9	3,500	4SW220M	
		270	7.3	4.3	2.9	9	3,500	4SW270M	
		330	7.3	4.3	2.9	9	3,500	4SW330M	
		100	7.3	4.3	2.7	9	3,500	6SW100M	
6.3 (j)		120	7.3	4.3	2.9	9	3,500	6SW120M	
		150	7.3	4.3	2.9	9	3,500	6SW150M	
		180	7.3	4.3	2.9	9	3,500	6SW180M	
		220	7.3	4.3	2.9	9	3,500	6SW220M	
		8 (k)	68	7.3	4.3	2.7	18	2,500	8SW68M
100		7.3	4.3	2.7	18	2,500	8SW100M		

OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we stricly control the quality of products and services. Welcome your RFQ to

Email: Info@DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.