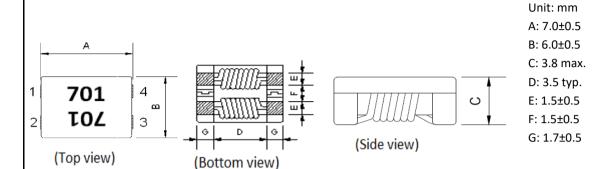
SPECIFICATION HISTORY LIST

Pl	ROD. NA	AME w	re Wound Power Common Mode Filter	Wound Power Common Mode Filter PART NO.		SRF7038A SERIES		
					1			
	REV.	REV. DATE DESCRIPTIO		N	APPROVED	CHECKED	DRAWN	
	Α	12/31/2019	Released		楊祥忠	羅敏汎	何玉蓮	

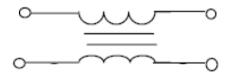
PAGE: 1

PROD. Wire Wound	PART NO.	SRF7038A SERIES
NAME Power Common Mode Filter	REF	12/31/2019

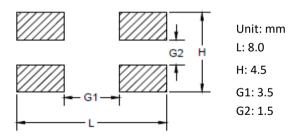
I. CONFIGURATION & DIMENSIONS:



II. SCHEMATIC DIAGRAM:

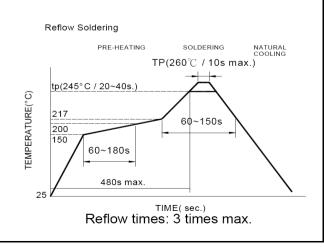


III. RECOMMENDED PAD LAYOUT:



IV. GENERAL SPECIFICATION:

- a. Operating temperature: -40~+125°C (Including self temperature rise)
- b. Storage temperature: -40~+125°C (on board)
- c Qualification to AEC-Q200



PAGE: 2

PROD.	Wire Wound	PART NO.	SRF7038A SERIES
NAME	Power Common Mode Filter	REF	12/31/2019

V. ELECTRICAL CHARACTERISTICS:

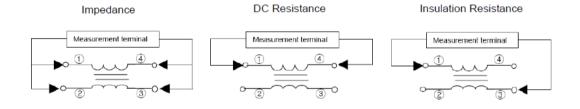
PART NO.	Impedance (Ω)		DC Resistance (mΩ) max.	Rated Current	Rated Volt.	Insulation Resistance
	min.	typ.	(1 line)	(A) max.	(Vdc) max.	$(M\Omega)$ min.
SRF7038A-400Y	40	70	5	15	80	10
SRF7038A-650Y	65	100	5	14	80	10
SRF7038A-101Y	100	140	10	9	80	10
SRF7038A-301Y	225	300	10	5	80	10
SRF7038A-501Y	400	500	10	5	80	10
SRF7038A-701Y	500	700	15	4	80	10
SRF7038A-102Y	800	1020	17	3	80	10
SRF7038A-132Y	910	1300	20	3	80	10

Note:

1. Test frequency: 100MHz

2. All test data referenced to 25°C ambient.

3. Rated Current: ΔT 40°CMax



PROD.	Wire Wound	PART NO.	SRF7038A SERIES
NAME	AME Power Common Mode Filter		12/31/2019
	ICAL PERFORMANCE CURVES : SRF7038A-400Y		SRF7038A-650Y
IMPEDANCE(Ohm) 100 1	Common mode Differential mode Trequency(MHz)	000 1000 1000 1000 1000 1000 1000 1000	Common mode Differential mode 10 100 1000 FREQUENCY(MHz)
0000 0001 000 001 001 001 001 001 001 0	SRF7038A-101Y Common mode Differential mode FREQUENCY(MHz)	10000 1000 1000 1000 1000 1000 1000 10	SRF7038A-301Y Output Output

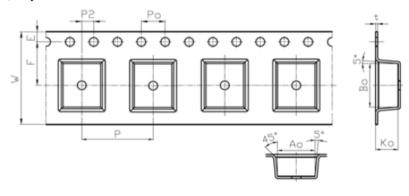
	Wire Wound	PART NO.	SRF7038A SERIES		
NAME Power Common Mode Filter		REF	12/31/2019		
VI. TYP	PICAL PERFORMANCE CURVES :				
	SRF7038A-501Y	SRF7038A-701Y			
10000 IMPEDANCE(Ohm) 1000 IMPEDANCE(Ohm)	Common mode Differential mode 10 FREQUENCY(MHz)	10000 10000 1000 1000 1000 1000 1000 1	Common mode Differential mode 10 FREQUENCY(MHz)		
10000	SRF7038A-102Y Common mode Differential mode FREQUENCY(MHz)	10000 1000 1000 1000 1000 1000 1000 10	SRF7038A-132Y Common mode Differential mode 10 FREQUENCY(MHz) Differential mode 100 FREQUENCY(MHz)		

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PROD.	Wire Wound	PART NO.	SRF7038A SERIES
NAME	Power Common Mode Filter	REF	12/31/2019

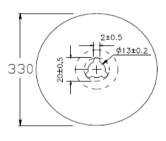
VII. PACKAGING INFORMATION

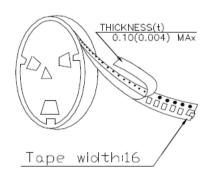
(1) Tape dimensions



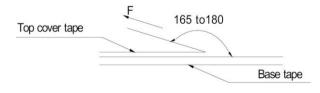
W(mm)	Bo(mm)	Ao(mm)	Ko(mm)	P0(mm)	P2(mm)	F(mm)	E(mm)	P(mm)	t(mm)
16.00+0.3/-0.1	7.50±0.1	6.3±0.1	3.8±0.1	4.0±0.1	2.0±0.1	7.5±0.1	1.75±0.1	12.0±0.1	0.35±0.05

(2) Reel dimensions





(3)Tearing Off Force



The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

Room Temp.	Room Temp. Room Humidity		Tearing Speed	
(°C)	(%)	(hPa)	mm/min	
5~35	45~85	860~1060	300	

(4) Packaging Quantity

Reel	1500

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	T			PAGE:	
PROD.	Wire W	ound	PART NO.	SRF7038A SERIES	
NAME Power Common		n Mode Filter REF		12/31/2019	
VIII. R	ELIABILITY TEST	`:			
	Test item	Specification as	nd Requirement	Test Conditions	
High Temperature Exposure(Storage) AEC-Q200				Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020D Classification Reflow Profiles) Temperature: 125±2°C Duration: 1000hrs Min. Measured at room temperature after placing for 24±2 hrs	
	Temperature Cycling AEC-Q200 Appearance: No damage. Impedance: within ±15% of initial value and specification value Moisture Resistance Appearance: No damage. Impedance: within ±15% of initial value and specification value			Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020D Classification Reflow Profiles) Condition for 1 cycle Step1: -40±2°C, 30min Min. Step2: 125±2°C, transition time 1min MAX. Step3: 125±2°C, 30min Min. Step4: Low temp. transition time 1min MAX. Number of cycles: 1000 Measured at room temperature after placing for 24±2 hrs	
			l value ion value.	Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020D Classification Reflow Profiles) 1. Baked at 50°C for 25hrs, measured at room temperature after placing for 4 hrs. 2. Raise temperature to 65±2°C, 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25°C in 2.5hrs. 3. Raise temperature to 65±2°C, 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25°C in 2.5hrs, keep at 25°C for 2hrs then keep at -10°C for 3hrs 4. Keep at 25°C, 80-100%RH for 15min and vibrate at the frequency of 10 to 55Hz to 10Hz, measure at room temperature after placing for 1 to 2 hrs.	
	Biased Humidity (AEC-Q200)			Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020D Classification Reflow Profiles) Humidity: 85±3% R.H. Temperature: 85°C±2°C Duration: 1000hrs Min with 100% rated current. Measured at room temperature after placing for 24±2 hrs	
	High Temperature Operational Life (AEC-Q200)			Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020DClassification Reflow Profiles) Temperature: 155±2°C(Inductor) Duration: 1000hrs Min. with 100% rated current. Measured at room temperature after placing for 24±2 hrs	
	External Visual	Appearance: No damage.		Inspect device construction, marking and workmanship. Electrical Test not required.	
Physical Dimension		According to the product specification size measurement		According to the product specification size measurement	
	Resistance to Solvents	Appearance: No damage.		Add aqueous wash chemical - OKEM clean or equivalent.	
	Physical Dimension	According to the product specific	ation size measurement	According to the product specification size measurement	
Appearance: No damage. Impedance: within ±15% of initial va Inductance: within ±10% of initial va Q: Shall not exceed the specification RDC: within ±15% of initial value and specification value		l value ion value.	Type Peak value (g'e) duration (D) (ms) Wave Change (Vi)tfvsec SMD 100 6 Half-sine 12.3 Lead 100 6 Half-sine 12.3 shocks in each direction along 3 perpendicular axes.		

PROD.		Wire W	ound	PART NO.	SRF7038A SERIES		
N.	AME	Power Common Mode Filter		REF	12/31/2019		
V]	III. R	ELIABILITY TEST	7:				
	Test item Vibration		Specification ar	nd Requirement	Test Conditions		
					(IPC/JEDEC J-STD-020D Classification Reflow Profiles) Oscillation Frequency: 10 ~ 2k ~ 10Hz for 20 minute Equipment: Vibration checker Total Amplitude: 1.52mm±10% Testing Time: 12 hours(20 minutes, 12 cycles each of 3 orientations) *		
	Res	istance to Soldering Heat	Appearance: No damage. Impedance: within ±15% of initial value Inductance: within ±10% of initial value 0: Shall not exceed the specification value. RDC: within ±15% of initial value and shall not exceed the		Temperature (°C) Time(s) Temperature ramp/immersion and emersion rate 260±5(soldertemp) 10±1 25mm/s ±6 mm/s 1		
		Thermal shock (AEC-Q200)	specification value		Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020D Classification Reflow Profiles) Condition for 1 cycle Step1: -40±2°C, 15±1min Step2: 125±2°C, within 20Sec. Step3: 125±2°C, U5±1min Number of cycles: 300 Measured at room temperature after placing fo24±2hrs		
	ESD		Appearance: No damage.		10% 10% 10% Time (1%)		
		Solderability	More than 95% of the terminal electrode should be covered with solder * Refer Specification for Approval		Steam Aging: 16 hours ± 15 min Preheat: 150°C,60sec. Solder: Sn96.5% Ag3% Cu0. 5% Temperature: 245±5°C ° Flux for lead free: Rosin. 9.5% ° Dip time: 4±1sec. Depth: completely cover the termination		
	Ele	ectrical Characterization			Summary to show Min, Max, Mean and Standard deviation .		
	Flammability		Electrical Test not required.		V-0 or V-1 are acceptable.		

PROD.		Wire Wound Power Common Mode Filter		PART NO.	SRF7038A SERIES
NAME				REF	12/31/2019
VIII. RELIABILITY TEST:					
	Test item		Specification and Requirement		Test Conditions
	Board Flex		Appearance: No damage		Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020DClassification Reflow Profiles) Place the 100mm X 40mm board into a fixture similar to the one shown in below Figure with the component facing down. The apparatus shall consist of mechanical means to apply a force which will bend the board (D) x = 2 mm minimum. The duration of the applied forces shall be 60 (+ 5) sec. The force is to be applied only once to the board.
	To	erminal Strength(SMD)			Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020D Classification Reflow Profiles) With the component mounted on a PCB with the device to be tested, apply a 17.7N (1.8 Kg) force to the side of a device being tested. This force shall be applied for 60 +1 seconds. Also the force shall be applied gradually as not to apply a shock to the component being tested. Tradius 0,5 mm DUT Wide thickness shear force

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