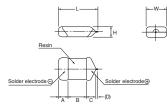
AUDIO F95 Series

Conformal Coated Chip Optimized for Audio Applications





Single-side electrodes (Both electrodes at bottom side only)

FEATURES

- Compliant to the RoHS2 directive 2011/65/EU
- Rich sound in the bass register and clear sound, Materials are strictly selected to
- achieve high level sound. F95 series has no lead-frame, and no vibration factor • Low ESR, Low ESL

*D dimension only for reference

- Line up miniature size and high capacitance, necessary to mobile design
- SMD conformal
- Small and high CV

APPLICATIONS

- Mobile Audio Player
- Smartphone
- Mobile phone
- Wireless Microphone System







Code	L	w	Н	Α	В	C	D*
A	3.20±0.30	1.70±0.30	1.40±0.20	0.80±0.30	1.20±0.30	0.80±0.30	0.20
	(0.126±0.012)	(0.067±0.008)	(0.055±0.008)	(0.031±0.012)	(0.047±0.012)	(0.031±0.012)	(0.008)
в	3.50±0.20	2.80±0.20	1.80±0.20	0.80±0.30	1.20±0.30	1.10±0.30	0.20
	(0.138±0.012)	(0.110±0.012)	(0.031±0.008)	(0.031±0.012)	(0.047±0.012)	(0.043±0.012)	(0.008)
Р	2.20±0.30	1.25±0.30	1.00±0.20	0.60±0.30	0.80±0.30	0.80±0.30	0.20
	(0.087±0.012)	(0.049±0.012)	(0.039±0.008)	(0.024±0.012)	(0.031±0.012)	(0.031±0.012)	(0.008)
s	3.20±0.30	1.60±0.30	1.00±0.20	0.80±0.30	1.20±0.30	0.80±0.30	0.20
	(0.126±0.012)	(0.063±0.008)	(0.039±0.008)	(0.031±0.012)	(0.047±0.012)	(0.031±0.012)	(0.008)
т	3.50±0.20	2.70±0.20	1.00±0.20	0.80±0.20	1.20±0.20	1.10±0.20	0.20
	(0.138±0.012)	(0.106±0.012)	(0.039±0.008)	(0.031±0.008)	(0.047±0.008)	(0.043±0.008)	(0.008)

CASE DIMENSIONS: millimeters (inches)

MARKING

Δ	S	CA	S	F.
~ ,	•	U		

	<i>J</i> * <i>J</i> 8
Capacitance	Capacitance
Code	Code

B, T CASE

μF	68	100	150	220	330	470	680
code	W7	A8	E8	J8	N8	S8	W8

P case - No marking on part.

HOW TO ORDER

F95	0G	227	Μ	S		AM1	Q2	
Туре	Rated Voltage	Capacitance Code pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)	Tolerance $K = \pm 10\%$ $M = \pm 20\%$	Case Size See table above	Packaging See Tape & Reel Packaging Section	AUDIO Series Code	Single Face Electrode	

TECHNICAL SPECIFICATIONS

Category Temperature Range:	-55 to +125°C
Rated Temperature:	+85°C
Capacitance Tolerance:	±20%, ±10% at 120Hz
Dissipation Factor:	Refer to next page
ESR 100kHz:	Refer to next page
Leakage Current:	Refer to next page
	Provided that:
	After 1 minute's application of rated voltage, leakage current at 85°C
	10 times or less than 20°C specified value.
	After 1 minute's application of rated voltage, leakage current at 125°C
	12.5 times or less than 20°C specified value.
Capacitance Change By Temperature	+15% Max. at +125°C
	+10% Max. at +85°C
	-10% Max. at -55°C



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CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capac	itance	Rated Voltage						
μF	Code	4V (0G)	4V (0G) 6.3V (0J) 10V (1A)					
68	686	S	S	В				
100	107	S	S/T	В				
150	157	S	A*					
220	227	P*/S/T	A*/B/T*					
330	337	Т	В					
470	477	B/T*	B*					
680	687	B*/T*						

Available Ratings

*Codes under development – subject to change

Please contact to your local AVX sales office when these series are being designed in your application.

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	*2 DCL (μA)	DF (%) @ 120Hz	ESR (Ω) @ 100kHz	*1 ∆C/C (%)
		4	Volt				
F950G686MSAAM1Q2	S	68	4	2.7	10	0.8	*
F950G107MSAAM1Q2	S	100	4	4.0	14	0.8	*
F950G157MSAAM1Q2	S	150	4	6.0	22	0.8	±15
F950G227MSAAM1Q2	S	220	4	8.8	30	0.8	±15
F950G227MTAAM1Q2	Т	220	4	8.8	25	0.6	*
F950G337MTAAM1Q2	Т	330	4	13.2	40	0.8	±20
F950G477MBAAM1Q2	В	470	4	18.8	40	0.4	±20
		6.	3 Volt				
F950J686MSAAM1Q2	S	68	6.3	4.3	14	0.9	*
F950J107MSAAM1Q2	S	100	6.3	6.3	20	0.9	±15
F950J107MTAAM1Q2	Т	100	6.3	6.3	14	0.6	*
F950J227MBAAM1Q2	В	220	6.3	13.9	30	0.4	*
F950J337MBAAM1Q2	В	330	6.3	20.8	35	0.6	±20
10 Volt							
F951A686MBAAM1Q2	В	68	10	6.8	12	0.4	*
F951A107MBAAM1Q2	В	100	10	10.0	14	0.4	*

RATINGS & PART NUMBER REFERENCE

* In case of capacitance tolerance ± 10% type, "K" will be put at 9th digit of type numbering system

1: \DC/C Marked ""

Item	A, B, S, T Case (%)
Damp Heat	±10
Tempereature cycles	±5
Resistance soldering heat	±5
Surge	±5
Endurance	±10

*2: Leakage Current

After 1 minute's application of rated voltage, leakage current at 20°C.



AUDIO F95 Series



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QUALIFICATION TABLE

	At 40°C, 90 to 95% R.H., 500 hours (No voltage applied)					
Damp Heat	Capacitance Change					
(Steady State)	Dissipation Factor Initial specified value or less					
	Leakage Current Initial specified value or less					
	At -55°C / +125°C, 30 minutes each, 5 cycles					
Temperature Cycles	Capacitance Change					
lemperature oycles	Dissipation Factor Initial specified value or less					
	Leakage Current Initial specified value or less					
	10 seconds reflow at 260°C, 5 seconds immersion at 260°C.					
Resistance to	Capacitance Change					
Soldering Heat	Dissipation Factor Initial specified value or less					
-	Leakage Current Initial specified value or less					
	After application of surge voltage in series with a 33Ω resistor at the rate of 30 seconds ON, 30 seconds OFF,					
	for 1000 successive test cycles at 85°C, capacitors shall meet the characteristic requirements in the table above.					
Surge	Capacitance Change					
-	Dissipation Factor Initial specified value or less					
	Leakage Current Initial specified value or less					
	After 2000 hours' application of rated voltage 85°C,					
	capacitors shall meet the characteristic requirements in the table above.					
Endurance	Capacitance Change					
	Dissipation Factor Initial specified value or less					
	Leakage Current Initial specified value or less					
	After applying the pressure load of 5N for 10±1 seconds horizontally to the center of capacitor side body					
Shear Test	which has no electrode and has been soldered beforehand on a substrate, there shall be found neither 5N (0.51kg - 0					
	exfoliation nor its sign at the terminal electrode.					
	Keeping a capacitor surface-mounted on a substrate upside down and supporting the substrate at					
Terminal Strength	both of the opposite bottom points 45mm apart from the center of capacitor, the pressure strength is					
ierninai Suengui	applied with a specified jig at the center of substrate so that the substrate may bend by 1mm as					
	illustrated. Then, there shall be found no remarkable abnormality on the capacitor terminals.					