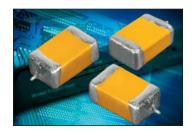
AUDIO F95 Series



Conformal Coated Chip Optimized for Audio Applications



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





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

APPLICATIONS

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

CASE DIMENSIONS: millimeters (inches)

1	Code	EIA Code	EIA Metric	L	w	Н	Α	В	C	D*
	Α	1207	3217-16	3.20±0.30 (0.126±0.012)	1.70±0.30 (0.067±0.008)	1.40±0.20 (0.055±0.008)	0.80±0.30 (0.031±0.012)	1.20±0.30 (0.047±0.012)	0.80±0.30 (0.031±0.012)	0.20 (0.008)
	В	1411	3528-20	3.50±0.20 (0.138±0.012)	2.80±0.20 (0.110±0.012)	1.80±0.20 (0.031±0.008)	0.80±0.30 (0.031±0.012)	1.20±0.30 (0.047±0.012)	1.10±0.30 (0.043±0.012)	0.20 (0.008)
	Р	0905	2212-12	2.20±0.30 (0.087±0.012)	1.25±0.30 (0.049±0.012)	1.00±0.20 (0.039±0.008)	0.60±0.30 (0.024±0.012)	0.80±0.30 (0.031±0.012)	0.80±0.30 (0.031±0.012)	0.20 (0.008)
	s	1306	3216-12	3.20±0.30 (0.126±0.012)	1.60±0.30 (0.063±0.008)	1.00±0.20 (0.039±0.008)	0.80±0.30 (0.031±0.012)	1.20±0.30 (0.047±0.012)	0.80±0.30 (0.031±0.012)	0.20 (0.008)
	Т	1411	3527-12	3.50±0.20 (0.138±0.012)	2.70±0.20 (0.106±0.012)	1.00±0.20 (0.039±0.008)	0.80±0.20 (0.031±0.008)	1.20±0.20 (0.047±0.008)	1.10±0.30 (0.043±0.012)	0.20 (0.008)

^{*}D dimension only for reference

MARKING

٨	9	CA	2		
М,	J	Ur	10	_	



Capacitance Code

<i>≯J8</i>
Capacitance 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		
	T		
Туре	Rated Voltage		



Code pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)

N	/
oler	anc
V	100/

 $K = \pm 10\%$ $M = \pm 20\%$



above



Packaging See Tape & Reel Packaging Section



Q2 Single **Series** 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	F	Rated Voltage			
μF	Code	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.

RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	*2 DCL (μΑ)	DF @ 120Hz (%)	ESR @ 100kHz (Ω)	*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	T	220	4	8.8	25	0.6	*
F950G337MTAAM1Q2	T	330	4	13.2	40	0.8	±20
F950G477MBAAM1Q2	В	470	4	18.8	40	0.4	±20
		6.3	3 Volt				
F950J686MSAAM1Q2	S	68	6.3	4.3	14	0.9	*
F950J107MSAAM1Q2	S	100	6.3	6.3	20	0.9	±15
F950J107MTAAM1Q2	T	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	*

 $^{^{\}star}$ In case of capacitance tolerance \pm 10% type, "K" will be put at 9th digit of type numbering system

1: △C/C Marked ""

Item	A, B, S, T Case (%)
Damp Heat	±10
Temperature 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

TEST	AUDIO F95 series (Temperature range -55°C to +125°C)
IESI	Condition
	At 40°C, 90 to 95% R.H., 500 hours (No voltage applied)
Damp Heat	Capacitance Change Refer to page 172 (*1)
(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 Refer to page 172 (*1)
Tomporatare eyelee	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 Refer to page 172 (*1)
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 Refer to page 172 (*1)
	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 Refer to page 172 (*1)
	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 shu (0.51kg · f)
	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
	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.