AUDIO F95 Series



Conformal Coated Chip Optimized for Audio Applications







TECHNICAL SPECIFICATIONS

Item	Performance Characteristics				
Category Temperature Range					
Capacitance Tolerance	±20%, ±10% (at 120Hz)				
Dissipation Factor	Refer to next page				
ESR (100kHz)	Refer to next page				
	Refer to next page				
	Provided that				
Leakage Current	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 derated voltage, leakage current at 125°C, 				
	12.5 times or less than 20°C specified value.				
Capacitance Change	+15% Max. (at +125°C)				
by Temperature	+10% Max. (at +85°C)				
	-10% Max. (at -55°C) At 40°C, 90 to 95% R.H., 500 hours (No voltage applied)				
Damp Heat					
(Steady State)	Capacitance Change				
(Steady State)	Dissipation Factor				
	Leakage Current				
	Capacitance Change Refer to next page (*1)				
Temperature Cycles					
	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 next page (*1)				
Soldering Heat	Dissipation Factor				
Coldoning Fieur	Leakage Current				
	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 table below.				
Surge	Capacitance Change				
	Dissipation Factor				
	Leakage Current				
	After 2000 hours' application of rated voltage 85°C, capacitors shall meet				
	the characteristic requirements table below.				
Endurance	Capacitance Change Refer to next page (*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				
Shear Test	side body which has no electrode and has been				
Siledi lest	soldered beforehand on a substrate, there shall				
	be found neither exfoliation nor its sign at the				
	terminal electrode.				
	Keeping a capacitor surface-mounted on a substrate upside down and				
	supporting the substrate at both of the opposite bottom points 45mm apart				
	from the center of capacitor, the pressure				
Terminal Strength	strength is applied with a specified jig at the R230 -20				
reminal Suengui	center of substrate so that the substrate				
	may bend by 1mm as illustrated. Then,				
	there shall be found no remarkable				

FEATURES

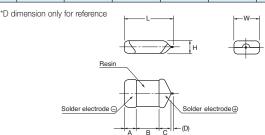
- Compliant to the RoHS directive (2002/95/EC)
- Rich sound in the bass register and clear sound, Materials are strictly selected to achieve high level sound. F95 series has no lead-frame, and no vibration factor.
- · Low ESR, Low ESL
- Line up miniature size and high capacitance, necessary to mobile design.
- SMD conformal
- Small and high CV

APPLICATIONS

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

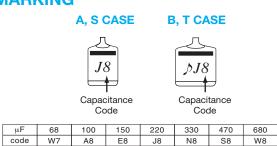
CASE DIMENSIONS: millimeters (inches)

Code	L	W	Н	Α	В	С	D*
Α	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)



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

MARKING



abnormality on the capacitor terminals

P case - No marking on part.

HOW TO ORDER





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



 $K = \pm 10\%$

 $M = \pm 20\%$

Case Size See table above

S



Packaging See page 163 for details



AUDIO Series Code





AUDIO F95 Series



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CAPACITANCE AND RATED VOLTAGE, V_{R} (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

Capac	itance	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 Number	Case Size	Cap (µF)	Rated Voltage (V)	*2 Leakage Current (µA)	Disspation Factor (%@120Hz)	ESR (Ω@100kHz)	*1 ∆C/C (%)
			4 Vol	lt			
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 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	*

 $^{^{\}star}$ 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
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.