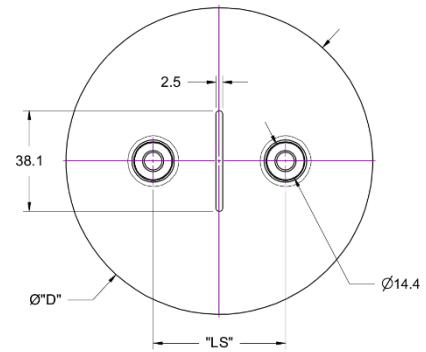


Order As **IFP(0179) 950uF ±10% 1100VDC**

Construction

Product Type IFP
 Dielectric Metallized polypropylene, non inductively wound
 Encasement Aluminum can with plastic cover
 Terminals Threaded inserts, tin plated brass
 Fill material Urethane
 Fusing/ Protection† PO (Not fail safe)



Electrical Characteristics

<u>Attribute</u>	<u>Symbol</u>	<u>Value</u>	<u>Unit</u>	<u>Note</u>
Capacitance	C _N	950	µF	@ 1KHz
Tolerance		±10	%	
Voltage	U _{NDC}	1100	V	
Surge Voltage	U _S	1650	V	Non Recurring
Ripple Voltage	U _R	250	V (rms)	Max
Current	I _{MAX}	75	A (rms)	@ 55°C
Peak Current	I _∧	2.5	kA	
Surge Current	I _S	8.5	kA	
ESR	R _S	2.18	mΩ	Typ @ 1kHz
Dissipation Factor	Tanδ	2.5	%	Max@ 1kHz
Inductance	L _S	60	nH	Typical

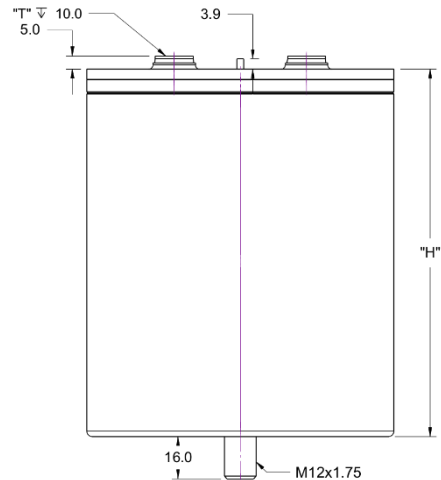


Figure 1: Mechanical Drawing

Dimensional/Physical Characteristics

<u>Dimension/Attribute</u>	<u>Symbol</u>	<u>Value</u>	<u>Unit</u>	<u>Tolerance</u>
Diameter *	D	116	mm	± 1
Terminal Pitch	LS	50	mm	± 1.0
Can Height	H	173	mm	+ 2-1.5mm
Terminal Thread	T	M6 x 10	mm	
Mounting Stud	ST	M12 x 1.75 x 16	mm	± 2
Weight		4.5	lb	typical

Thermal Characteristics

<u>Attribute</u>	<u>Symbol</u>	<u>Value</u>	<u>Unit</u>
Min Operation	Θ _{min}	-40	°C
Max Operation	Θ _{max}	70	°C
Max Hot Spot	Θ _{max}	85	°C
Thermal Resistance		1.84	°C/W
Storage Conditions		-40/85	°C

Voltage Verification Checks

<u>Test</u>	<u>Symbol</u>	<u>Value</u>	<u>Units</u>
Terminal – Terminal	U _{BB}	1.65	KV (dc)
Terminal – Case	U _{BG}	4.0	KV (rms) 1 minute

Standards

IEC61071 (2007-01)

Reliability

100,000 hrs @ 70 °C ambient See Performance Charts

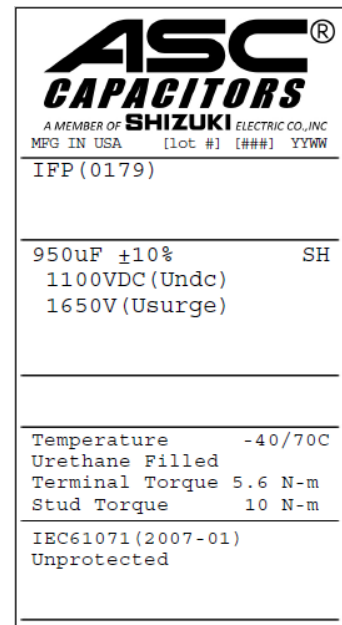


Figure 2: Label Example

Drawn By	S. Bauer	05/05/17	IFP(0179) 950uF ±10% 1100VDC	ASC CAPACITORS A MEMBER OF THE SHIZUKI GROUP	301 West O Street Ogallala, NE 69153 (308) 284-3611		
Engineer					Specification	Revision	Page
Quality					23A00605-62	C	1 of 4
Chief Engr			Form QAF 7.3I/0611				

Special Considerations for Safety, Operation and Service Life

† Protection Levels

P0: Not fail safe

P1: Protected by means of dielectric fusing methods

P2: Protected by means of mechanical interrupt (pressure)

The information provided herein for electrical parameters are the maximum ratings. Contact ASC for special operating conditions.

The total circuit current including all harmonics should not exceed the maximum rating.

The Hot spot temperature should not exceed the maximum rating.

Service life is reduced or increased by approximately 50% for every 7°C increase or decrease from the rated temperature.

ASC does its best to determine life based on formulas related to voltage and temperature. However, ASC cannot duplicate the end application so the provided reliability values should be considered as references when operated under the rated conditions.

Misapplying capacitors can lead to catastrophic failures. ASC is not responsible for any damage as a result of misuse.

Care should be taken to ensure the capacitor is properly discharged when removing from circuit.

Mounting

It is recommended that the capacitors are spaced a minimum of 20mm apart for air flow and cooling.

RoHS and Environment

All capacitors are manufactured with lead free solder.

There are no PCB's in any of our products.

While the materials are environmentally safe, ASC suggests using appropriate disposal methods per your regional regulations.

MSDS sheets are available upon request.

Overvoltage

Daily Permissible over voltages are as follows:


1210V (1.1x rated voltage) 30% of load duration

1265V (1.15 x rated voltage) 30 minutes

1320V (1.2 x rated voltage) 5 minutes

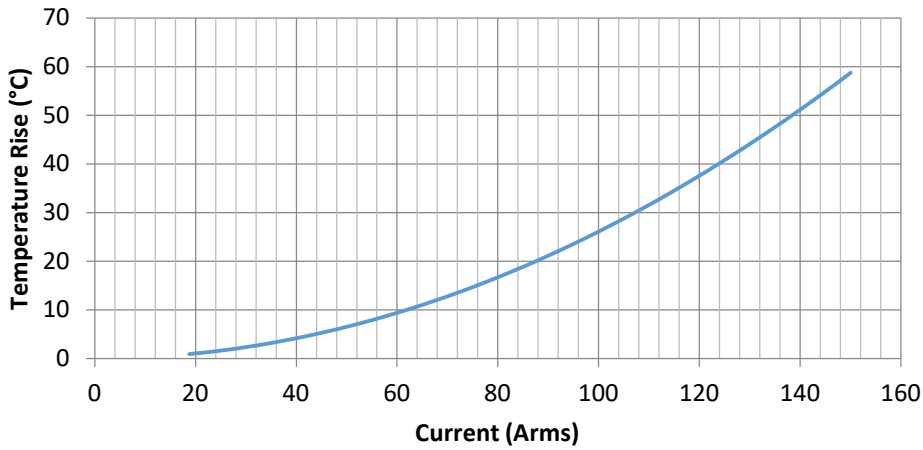
1430V (1.3 x rated voltage) 1 minute

1650V (Surge voltage permitted a duration of 30mS for 1000 times over the life of the capacitor)

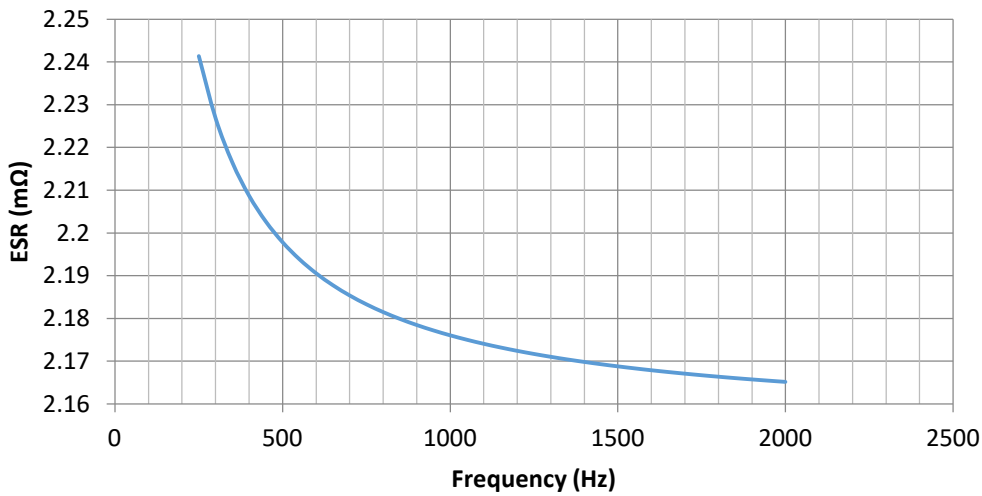
Drawn By	S. Bauer	05/05/17	IFP(0179) 950uF ±10% 1100VDC	 A MEMBER OF THE SHIZUKI GROUP	301 West O Street Ogallala, NE 69153 (308) 284-3611		
Engineer					Specification 23A00605-62	Revision C	Page 2 of 4
Quality							
Chief Engr							


Performance Curves

Temperature Rise vs. Current

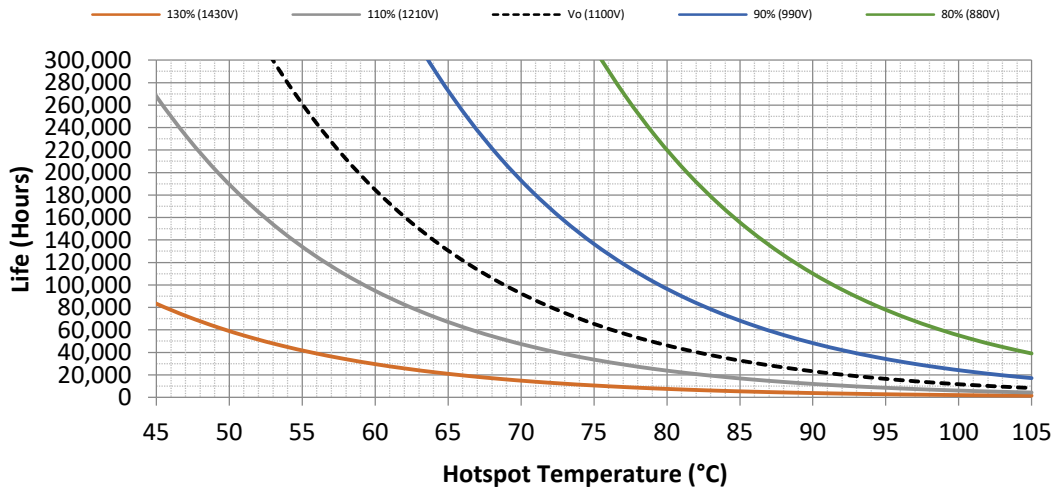


ESR vs. Frequency

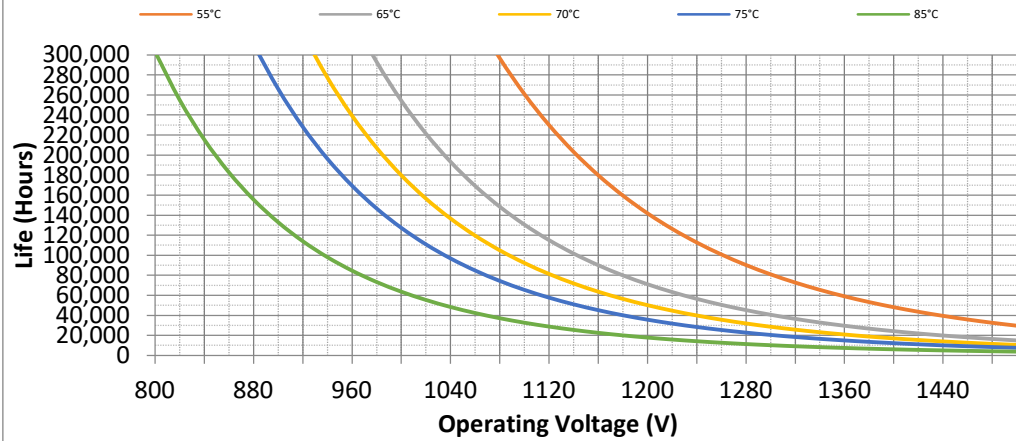



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Capacitor Life vs. Hotspot Temperature



Capacitor Life vs. Operating Voltage



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