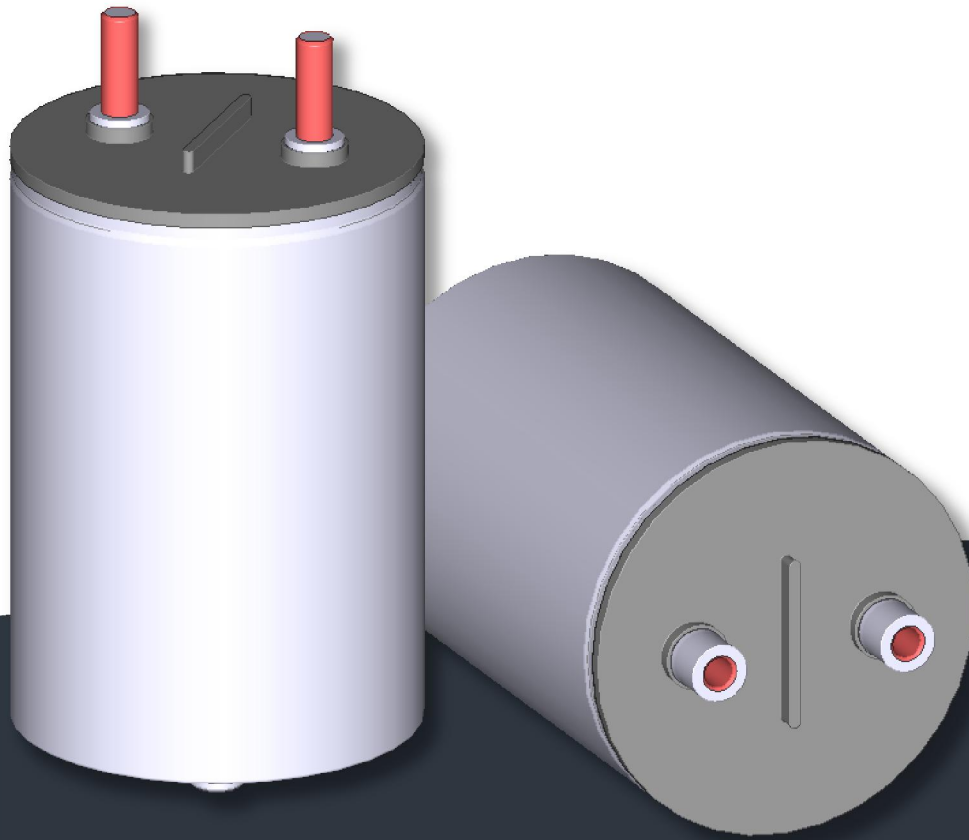


# IFP SERIES

INVERTER . FILTER . POWER



## APPLICATION

- ✓ DC INVERTER BUS FILTERING
- ✓ DRIVE DC LINK

## CHARACTERISTICS

- ✓ LOW ESR
- ✓ DRY CONSTRUCTION, NO LEAKING FLUIDS
- ✓ UP TO 0.25A/ $\mu$ F RMS CURRENT RATING
- ✓ SINGULAR CONNECTIONS WITH HIGH RIPPLE CURRENT

# CHARACTERISTICS TABLE

CAPACITANCE ( $\mu$ F)*	VDC*	V SURGE*	D X L		IRMS @ 70C (AMPS)	IPK (AMPS)	ESR TYP (m $\Omega$ )	Ls TYPICAL
			+/- 1.0MM					
32	3000	4500	85	140	20	600	8.9	40
60			100	164	35	1000	7.6	50
135			116	250	80	1400	4.2	60
245			136	300	80	2000	3.7	70
52	2600	3900	85	140	30	850	7.0	40
100			100	164	40	1200	5.8	50
220			116	250	80	1800	3.3	60
400			136	300	80	2500	2.9	70
60	2400	3600	85	140	30	900	6.6	40
115			100	164	40	1300	5.4	50
250			116	250	80	1800	3.2	60
460			136	300	80	2700	2.7	70
80	2200	3300	85	140	35	1000	5.6	40
145			100	164	40	1200	4.9	50
320			116	250	80	2100	2.7	60
580			136	300	80	3000	2.4	70
100	2000	3000	85	140	35	1200	4.9	40
180			100	164	45	1700	4.4	50
400			116	250	80	2400	2.5	60
720			136	300	80	3400	2.1	70
120	1800	2700	85	140	35	1200	4.7	40
225			100	164	45	1900	4.0	50
500			116	250	80	2600	2.2	60
900			136	300	80	3800	1.9	70
175	1500	2250	85	140	40	1500	3.8	40
330			100	164	50	2300	3.2	50
730			116	250	80	3200	1.8	60
1300			136	300	80	4500	1.6	70
250	1200	1800	85	140	40	1800	3.1	40
450			100	164	55	2600	2.8	50
1000			116	250	80	3700	1.6	60
1800			136	300	80	5300	1.4	70
330	1100	1650	85	140	45	2100	2.7	40
600			100	164	60	3100	2.4	50
1300			116	250	80	4200	1.4	60
2400			136	300	80	6200	1.2	70
370	1000	1500	85	140	50	2200	2.6	40
675			100	164	60	3200	2.3	50
1500			116	250	80	4600	1.3	60
2700			136	300	80	6500	1.1	70
460	900	1350	85	140	50	2500	2.4	40
850			100	164	65	3600	2.0	50
1900			116	250	80	5200	1.1	60
3500			136	300	80	7600	1.0	70
600	750	1125	85	140	55	2800	2.0	40
1100			100	164	70	4100	1.8	50
2500			116	250	80	6000	1.0	60
4500			136	300	80	8500	0.9	70

## CONSTRUCTION

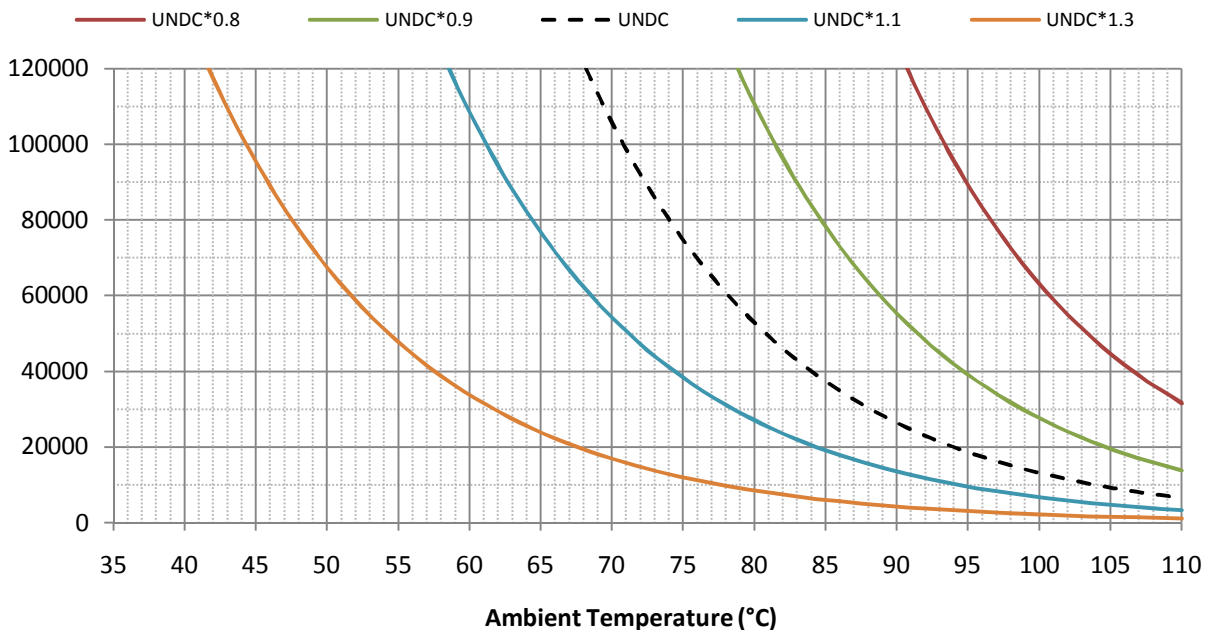
**ELECTRODE:** METALLIZED POLYPROPYLENE  
**CASE:** ALUMINUM WITH PLASTIC COVER  
**POTTING:** URETHANE OR EPOXY (UL94-V0)  
**TERMINALS:** ROHS COMPLIANT TIN PLATED BRASS

## ELECTRICAL CHARACTERISTICS

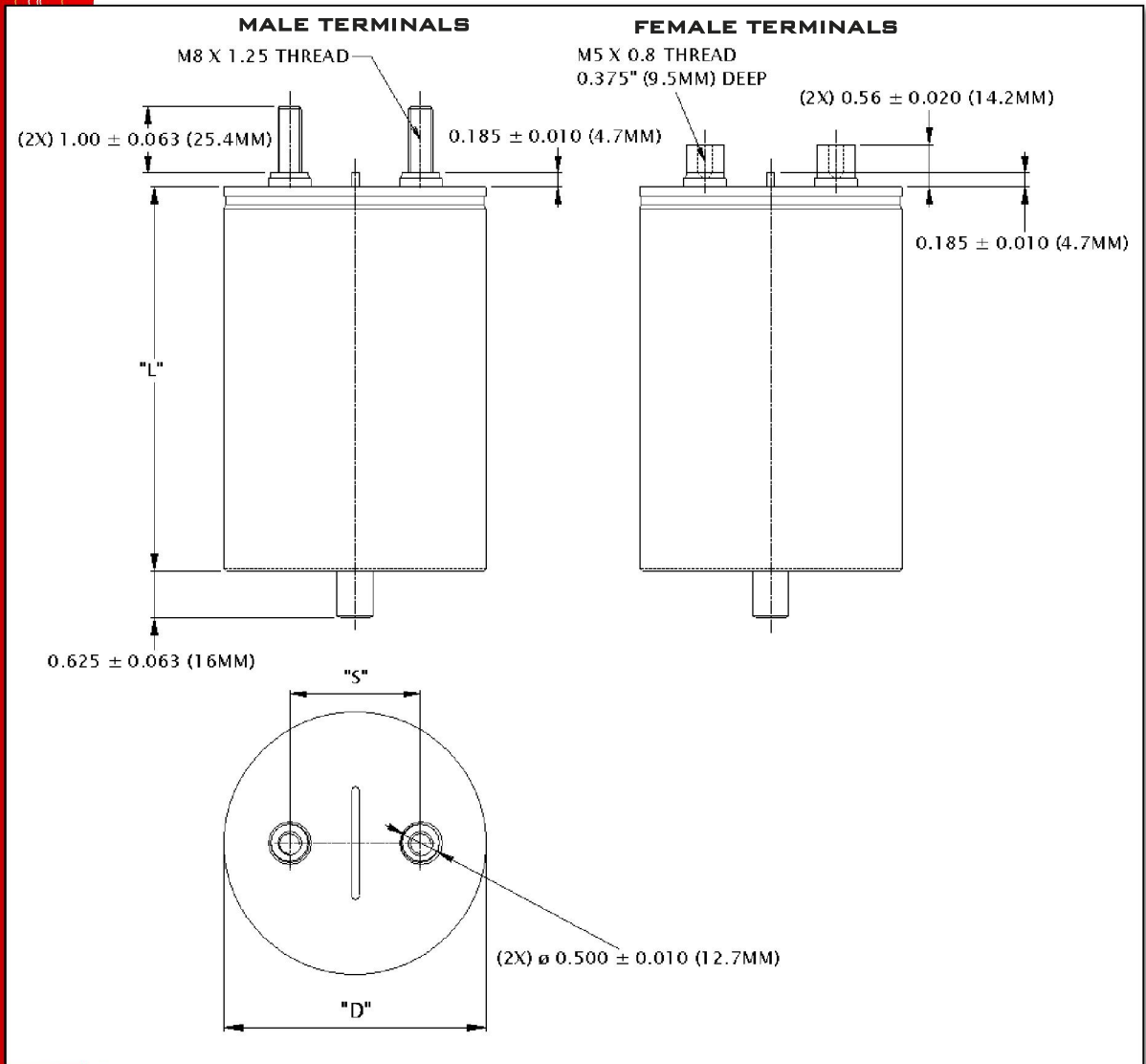
**CAP:** PER TABLE  $\pm$  (STANDARD TOLERANCE OF 5% AND 10%) WHEN MEASURED OR REFERRED TO AT  $1k \pm 10$  Hz AND  $25 \pm 5^\circ\text{C}$ .  
**DF:** SHALL NOT BE GREATER THAN 0.8% WHEN MEASURED AT OR REFERRED TO  $1k \pm 10$  Hz AND  $25 \pm 5^\circ\text{C}$ .  
**IR:**  $10,000 M\Omega \cdot \mu\text{F}$  MEASURED AT 100VDC AND  $25 \pm 5^\circ\text{C}$ .  
**DIELECTRIC STRENGTH:**  
TERMINAL TO TERMINAL ( $U_T$  OR T-T):  $1.5 \cdot U_{\text{NDC}}$  FOR 10 SECONDS  
TERMINAL TO CASE ( $U_T$  OR T-C):  $(U_{\text{NDC}} / 2) + 1000$  OR 2000VDC WHICHEVER IS HIGHER  
**OPERATING TEMPERATURE:**  $-40^\circ\text{C}$  TO  $+85^\circ\text{C}$   
**RATED CURRENT:** PER TABLE BASED ON 5KHZ OPERATION FREQUENCY  
**LIFE:** 100,000 HOURS @  $70^\circ\text{C}$  AND FULL RATED VOLTAGE AND CURRENT  
**STANDARD:** IEC61071

## LIFE CHARACTERISTICS

Capacitor Life (hours) vs. Ambient Temperature



# DIMENSIONAL CHARACTERISTICS



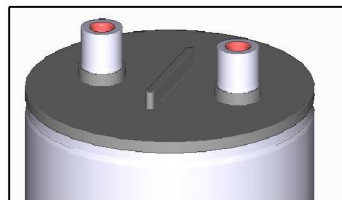
## "S" LEAD SPACING (PITCH) :

32.0MM ±0.5MM (1.25") (STD SPACING FOR 85MM DIAMETERS)

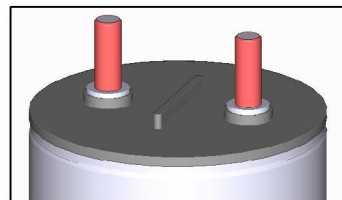
44.5MM ±0.5MM (1.75")

50.0MM ±0.5MM (1.97") (STD SPACING FOR 100, 116 & 136MM DIAMETERS)

## OPTIONAL TERMINAL CONFIGURATIONS



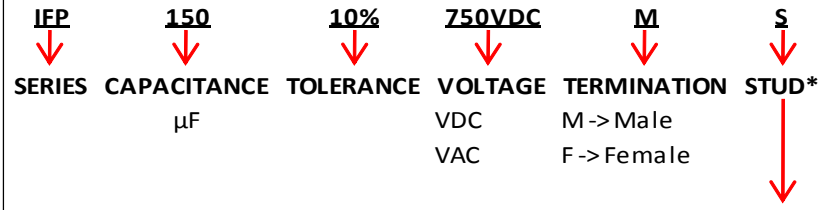
FEMALE



MALE

# ORDERING INSTRUCTIONS

EXAMPLE - IFP 150 10% 750VDC M S



\*Leave Blank if M12 Stud is Not Desired

## RECOMMENDED TORQUE SETTINGS

\*These settings are suggested to hold two parts together with such a force that is greater than any external force that could separate the two objects, yet still maintain strength of the bolt and its bond to the internal buss structure of the capacitor.

BOLT SIZE	TYPICAL (IN/LBS)	MAX (IN/LBS)
M6	41	59
¼-20	43	62
M8	89	127
3/8 – 16	134	192
M10	172	246
7/16-14	222	317
M12	265	379
½-13	295	422

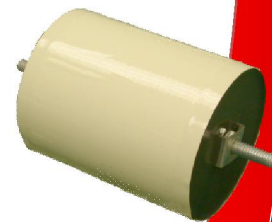
VISIT [WWW.ASCAPACITOR.COM](http://WWW.ASCAPACITOR.COM) TO VIEW RELATED POWER CAPACITORS



X382 STYLE



IFP STYLE



THD STYLE

# ASCAPACITORS

AMERICAN SHIZUKI CORPORATION  
 301 WEST "O" STREET OGALLALA, NE 69153  
 PHONE: 308.284.3611  
 FAX: 308.284.2708

[SALES@ASCAPACITOR.COM](mailto:SALES@ASCAPACITOR.COM) [WWW.ASCAPACITOR.COM](http://WWW.ASCAPACITOR.COM)