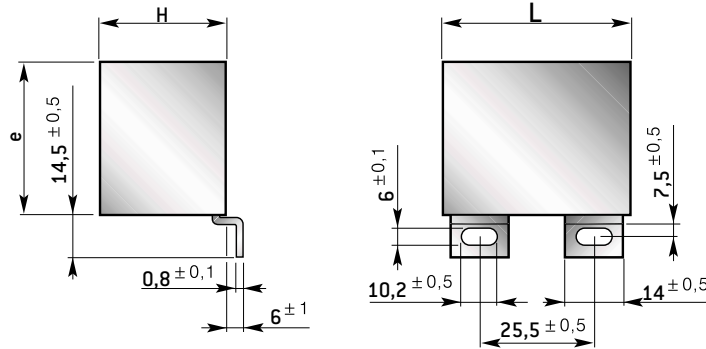


IGB 99**RoHS = W**

Case Boîtier	L ± 0,3	H ± 0,3	E Max	R _{th} *
1	42,5	30	45	18
2	42,5	28	38	21
3	42,5	22	30	28

* R_{th} : thermal resistance in °C/W* R_{th} : résistance thermique en °C/W**DIELECTRIC**
metallized polypropyleneFlame retardant resin
(as per classification
UL V0)**MARKING**
model
capacitance
tolerance
rated voltage
date-code**DIÉLECTRIQUE**
Polypropylène métallisé**TECHNOLOGIE**
Autocicatrisable,
non inductif
Boîtier thermoplastique
Obturé résineAuto-extinguible
(suivant classification
UL V0)**APPLICATION**
Condensateur "SNUBBER"
IGBT et semi-conducteur
de puissance**MARQUAGE**
modèle
capacité
tolérance
tension nominale
date-code**TECHNOLOGY**
self-healing, non
inductive
Plastic case
Resin sealed**APPLICATION**
SNUBBER capacitor IGBT
and
power semi-conductor

ELECTRICAL CHARACTERISTICS

CARACTÉRISTIQUES ÉLECTRIQUES

Operating temperature	- 40°C + 85°C		Température d'utilisation	
Climatic category	40/85/56		Catégorie climatique	
Dissipation factor at 1 kHz	≤ 5.10 ⁻⁴		Tangente de l'angle de pertes à 1 kHz	
Insulation resistance	for C _R ≤ 0,33 μF	≥ 100000 MΩ	pour C _R ≤ 0,33 μF	Résistance d'isolement
	for C _R > 0,33 μF	≥ 30000 MΩ	pour C _R > 0,33 μF	
Withstand voltage	1,6 U _{RC} / 10 s		Tension de tenue	
Withstand voltage between leads and case	3000 V - 50 Hz - 1 mn		Tension de tenue entre bornes réunies et masse	
Serie inductance	≤ 25 nH		Inductance série	
For other characteristics see page 58				Autres caractéristiques voir page 58

CAPACITANCE VALUES AND RATED VOLTAGE (D.C.)

VALEURS DE CAPACITÉ ET DE TENSION (U_{RC})

Voltage / Tension U _{RC}	850 V _{CC}				1000 V _{CC}				1200 V _{CC}				2000 V _{CC}				3000 V _{CC}			
Voltage / Tension U _{RA}	450 V _{CA}				480 V _{CA}				500 V _{CA}				630 V _{CA}				750 V _{CA}			
Dimensions [mm]	Case Boîtier	I _{RA} [1]	I ² t [2]	dV/dt [3]	Case Boîtier	I _{RA} [1]	I ² t [2]	dV/dt [3]	Case Boîtier	I _{RA} [1]	I ² t [2]	dV/dt [3]	Case Boîtier	I _{RA} [1]	I ² t [2]	dV/dt [3]	Case Boîtier	I _{RA} [1]	I ² t [2]	dV/dt [3]
47 nF																				
0,1 μF													3	6,3	0,08	1200	3	4,5	0,04	1900
0,15													3	8,5	0,15	1100	2	7,5	0,12	1500
0,22													2	12,5	0,32	1100	1	15	0,48	1400
0,33									3	12	0,35	800	2	16,5	0,57	1000				
0,47	3	10	0,46	600	3	12	0,49	660	2	17	0,7	800	1	21	0,89	850				
0,68	3	10	0,97	600	3	14	0,65	530	2	19	1	660	1	21	1,36	750				
1	3	10	0,33	300	2	17	1,4	530	1	22	2,2	660								
1,2	2	12	0,47	300	1	20	2	530	1	22	2,5	600								
1,5	2	15	0,74	250	1	20	3,1	530	1	22	3,1	530								
2	2	17	1	220	1	20	1,8	210												
2,2	2	19	1,2	220																
2,5	1	21	1,6	220																

± 20% · ± 10% · ± 5%

Capacitance tolerances / Tolérances sur capacité

(F = 100 kHz)

(F = 100 kHz)

(1) I_{RA} : Rms current in amperes for a max. temperature of 85°C on the capacitor in operation(1) I_{RA} : Courant eff. en ampères pour une température max. de 85°C sur le condensateur en fonctionnement(2) I²t : Pulse current in A²s(2) I²t : Courant impulsionnel en A²s

(3) dV/dt : Permitted voltage variation in V/μs

(3) dV/dt : Variation admissible de la tension en V/μs

For intermediate value, the dimensions are those of the immediately superior value

Toute valeur intermédiaire est exécutée dans les dimensions de la valeur immédiatement supérieure

HOW TO ORDER

EXEMPLE DE CODIFICATION À LA COMMANDE

Model	Case	UL : Flame retardant	W : RoHS	Capacitance	Capa. tolerance	Rated voltage (V _{RC})
IGB 99	1	-	-	1 μF	± 10%	1200 V
Modèle	Boîtier	UL : Auto-extinguible	W : RoHS	Capacité	Tolérance sur capacité	Tension nominale (V _{RC})

IGBT SNUBBER CAPACITORS METALIZED POLYPROPYLENE FILM DIELECTRIC CAPACITORS



FEATURES

- Low ESL and ESR
- Voltage ratings to 3,000 VDC / 920 VRMS
- Ripple current greater than 20 ARMS @ 85°C
- Across the bus 23 - 28 mm terminal spacing
- 105°C operating temperature
- dv/dt Capabilities to 3,300 V / μ s

MAJOR APPLICATIONS:

Snubber, industrial controls, AC drives and inverters, UPS, charging systems, and other high voltage electronic applications.

PHYSICAL CHARACTERISTICS

CONSTRUCTION:

Non-inductive wound metalized polypropylene.

CASE:

Flame retardant molded plastic case and epoxy fill.

DIMENSIONS (in inches):

Case	Length	Width	Height
1	1.65	1.25	1.25
2	1.77	1.46	1.46

TERMINALS:

Tinned copper tabs.

MARKING:

Dearborn trademark, type or catalog number, capacitance, tolerance and voltage.

ELECTRICAL SPECIFICATIONS

CAPACITANCE RANGE:

0.10 μ F to 2.5 μ F

CAPACITANCE TOLERANCE:

$\pm 20\%$, $\pm 10\%$, $\pm 5\%$

VOLTAGE RANGE:

- 800 VDC to 3,000 VDC
- 460 VRMS to 920 VRMS

VOLTAGE DERATING:

At +105°C, 70% of the 85°C rating

OPERATING TEMPERATURE:

- -55°C to +105°C for DC operation
- -55°C to +85°C for AC operation

DISSIPATION FACTOR:

0.10% maximum

EQUIVALENT SERIES INDUCTANCE:

< 26nH

EQUIVALENT SERIES RESISTANCE:

See standard ratings table

DC VOLTAGE TEST:

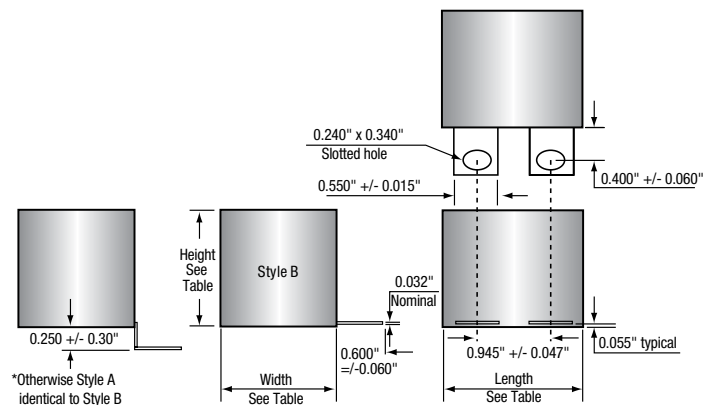
150% of rated voltage for 2 minutes

INSULATION RESISTANCE:

Measure at 500 VDC after a 2 minute charge.

- At +25°C, 175,000 Megaohm-Microfarads, need not exceed 350,000 Megaohms
- At +85°C, 10,000 Megaohm-Microfarads, need not exceed 20,000 Megaohms

DIMENSIONS (in inches)



Consult factory for other terminal configurations and/or spacing.

IGBT SNUBBER CAPACITORS

METALIZED POLYPROPYLENE FILM DIELECTRIC CAPACITORS

TYPE 752P

STANDARD RATINGS

Capacitance		Case Size	Typical ESR MΩ 100kHz	Max. Ripple Curretn at 100kHz (Amp)		I Peak (Amp)	dv / dt (V / μs)
μF	Code			50°C	85°C		
800 VDC / 460 VRMS* (Voltage Code 800)							
0.39	394	1	9.9	16.2	13.0	300	785
0.47	474	1	8.4	17.8	14.2	370	785
0.56	564	1	8.3	19.4	15.5	380	675
0.68	684	1	9.8	21.5	17.2	385	565
0.75	754	1	9.0	22.5	18.0	425	565
0.82	824	1	8.3	23.6	18.9	460	565
1.0	105	1	6.9	26.0	20.8	565	510
1.2	125	2	6.7	26.0	20.8	595	435
1.4	145	2	5.9	26.0	20.8	695	425
1.5	155	2	5.5	26.0	20.8	745	425
1.8	185	2	6.5	26.0	20.8	720	400
2.0	205	2	6.0	26.0	20.8	800	345
2.2	225	2	5.5	26.0	20.8	880	335
2.5	255	2	4.9	26.0	20.8	1000	335
1,000 VDC / 460 VRMS* (Voltage Code 1K0)							
0.33	334	1	9.6	14.9	11.9	269	895
0.39	394	1	9.9	16.2	13.0	300	785
0.47	474	1	8.4	17.8	14.2	370	785
0.56	564	1	8.3	19.4	15.5	380	675
0.68	684	1	9.8	21.5	17.2	385	565
0.75	754	1	9.0	22.5	18.0	425	565
0.82	824	1	8.3	23.6	18.9	460	565
1.0	105	1	6.9	26.0	20.8	565	510
1.2	125	2	6.7	26.0	20.8	595	435
1.4	145	2	5.9	26.0	20.8	695	425
1.5	155	2	5.5	26.0	20.8	745	425
1,200 VDC / 460 VRMS* (Voltage Code 1K2)							
0.27	274	1-2	11.6	13.5	10.8	240	895
0.33	334	1-2	9.6	14.9	11.9	269	895
0.39	394	1-2	9.9	16.2	13.0	300	785
0.47	474	1-2	8.4	17.8	14.2	370	785
0.56	564	1-2	8.3	19.4	15.5	380	675
0.68	684	1	9.8	21.5	17.2	385	565
0.75	754	1	9.0	22.5	18.0	425	565
0.82	824	1	8.3	23.6	18.9	460	565
1.0	105	1	6.9	26.0	20.8	565	510
1.2	125	2	6.7	26.0	20.8	595	435
1.4	145	2	5.9	26.0	20.8	695	425
1.5	155	2	5.5	26.0	20.8	745	425
1,600 VDC / 920 VRMS* (Voltage Code 1K6)							
0.10	104	1	16.8	8.2	6.6	308	3080
0.12	124	1	14.1	9.0	7.2	370	2945
0.15	154	1	9.8	10.1	8.1	460	2790
0.18	184	1	9.7	11.0	8.8	555	2635
0.22	224	1	9.4	13.0	10.4	585	2340
0.27	274	1-2	7.8	14.4	11.5	600	2040
0.33	334	1-2	8.0	15.9	12.7	660	1845
0.39	394	1-2	6.9	17.4	13.9	860	1750
0.47	474	1-2	7.6	19.1	15.2	860	1565
0.56	564	1-2	6.5	21.9	17.5	1030	1475

Additional capacitance values, voltages, and tolerances are available upon request.

* AC voltage rating is at 400Hz.