

## Serie CMLF

### Condensatori snubber IGBT *Snubber IGBT capacitors*

Condensatori progettati specificamente per circuiti di soppressione e risonanza, impulsi e carichi elevati grazie alla metallizzazione a doppio lato.  
*Capacitors specifically designed for snubber and resonance circuits, pulse and high loads due to double sided metallization.*



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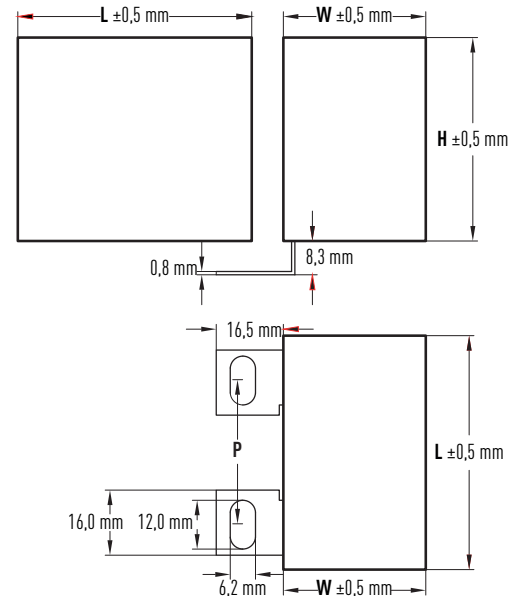
## Condensatori snubber IGBT

### Snubber IGBT capacitors

#### Caratteristiche tecniche

##### Technical details

Tensione nominale DC ( $U_{NDC}$ ) <i>Rated DC voltage (<math>U_{NDC}</math>)</i>	850, 1000, 1200, 2000
Range capacità <i>Capacitance range</i>	0,1 $\mu$ F -> 5 $\mu$ F
Tolleranza capacità <i>Capacitance tolerance</i>	$\pm 5/10\%$
Fattore dissipazione (DF) <i>Dissipation factor (DF)</i>	Tg $\delta$ x5-4, 1kHz @ 40°C
Dispositivo di sicurezza <i>Safety device</i>	NO
Categoria climatica <i>Climatic category</i>	40/85/56 - IEC 60068
Temperatura massima d'esercizio - $\theta_{max}$ <i>Maximum operating temperature -<math>\theta_{max}</math></i>	85°C
Temperatura minima d'esercizio - $\theta_{min}$ <i>Minimum operating temperature -<math>\theta_{min}</math></i>	-40°C
Tensione di prova <i>Test voltage</i>	tra i terminali: $2U_R/10''$ <i>between terminals: <math>2U_R/10''</math></i>
Terminali <i>Terminals</i>	Piastrine capocorda in ottone (senza piombo) <i>Tinned brass lugs (lead-free)</i>
Corrente massima terminali <i>Maximum terminal current</i>	100A
Materiale contenitore <i>Case material</i>	Plastica VO autoestinguente UL94 <i>UL94 Self-extinguishing VO plastic</i>
Grado di protezione <i>Protection degree</i>	IP00
Norma di riferimento <i>Reference standard</i>	IEC 61071-1 IEC 1071
Aspettativa di vita <i>Life expectancy</i>	$\geq 100000$ h
Umidità relativa <i>Relative humidity</i>	90 $\pm$ 2%
Altitudine <i>Altitude</i>	$\leq 2000$ mslm masl



#### Principali applicazioni

- Comandi motore (controllo velocità motore CA)
- Sistemi UPS
- Inverter/Convertitori
- Forni a microonde
- Auto elettriche
- Alimentatori switching
- Commutazione SCR (raddrizzatore controllato al silicio)
- Saldatura e attrezzature per saldatura ad arco

#### Main applications

- Motor controls (AC Motor Speed Control)
- UPS Systems
- Inverters/Converters
- Microwave ovens
- Electric cars
- Switch Mode Power Supplies
- SCR Commutation (Silicon Controlled Rectifier)
- Welding, Arc/Welding Equipment

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Code	Cap. ( $\mu$ F)	Un (Vdc)	U RMS (Vac)	dv/dt (v/ $\mu$ s)	Current (Amp)		ESR m $\Omega$	ESL nH	Dimensions (mm)		
					Ipk	I rms			L	W	H
CMLFN3470AF2AJ	0.47	850	550	753	354	16	8.2	41	42.0	20.0	39.5
CMLFN3680AF2AJ	0.68	850	550	753	512	19	5.7	41	42.0	20.0	39.5
CMLFN4100AF2AJ	1.00	850	550	753	753	22	4.0	41	42.0	20.0	39.5
CMLFN4150AF2BJ	1.50	850	550	753	1130	29	2.7	36	42.5	28.0	37.0
CMLFN4200AF2CJ	2.00	850	550	753	1506	36	2.1	43	42.5	33.0	45.0
CMLFN4220AF2CJ	2.20	850	550	753	1657	37	1.9	43	42.5	33.0	45.0
CMLFN4250AF2DJ	2.50	850	550	465	1163	39	1.7	45	57.5	30.0	45.0
CMLFN4300AF2DJ	3.00	850	550	465	1395	32	3.0	45	57.5	30.0	45.0
CMLFN4330AF2DJ	3.30	850	550	465	1535	33	2.8	45	57.5	30.0	45.0
CMLFN4400AF2EJ	4.00	850	550	465	1860	36	2.3	48	57.5	35.0	50.0
CMLFN4500AF2EJ	5.00	850	550	465	2325	42	1.9	48	57.5	35.0	50.0
CMLFP3470AF2AJ	0.47	1000	600	821	386	16	7.6	41	42.0	20.0	39.5
CMLFP3680AF2AJ	0.68	1000	600	821	558	20	5.3	41	42.0	20.0	39.5
CMLFP4100AF2AJ	1.00	1000	600	821	821	23	3.7	41	42.0	20.0	39.5
CMLFP4150AF2BJ	1.50	1000	600	821	1232	30	2.5	36	42.5	28.0	37.0
CMLFP4200AF2CJ	2.00	1000	600	821	1642	36	2.0	43	42.5	33.0	45.0
CMLFP4220AF2DJ	2.20	1000	600	505	1111	29	3.8	45	57.5	30.0	45.0
CMLFP4250AF2DJ	2.50	1000	600	505	1263	30	3.3	45	57.5	30.0	45.0
CMLFP4300AF2DJ	3.00	1000	600	505	1515	33	2.8	45	57.5	30.0	45.0
CMLFP4330AF2DJ	3.30	1000	600	505	1667	34	2.6	45	57.5	35.0	50.0
CMLFP4400AF2EJ	4.00	1000	600	505	2020	40	2.2	78	57.5	35.0	50.0
CMLFR3330AF2AJ	0.33	1200	630	958	316	15	9.5	41	42.0	20.0	39.5
CMLFR3470AF2AJ	0.47	1200	630	958	450	18	6.7	41	42.0	20.0	39.5
CMLFR3680AF2AJ	0.68	1200	630	958	651	21	4.7	41	42.0	20.0	39.5
CMLFR4100AF2BJ	1.00	1200	630	958	958	27	3.3	36	42.5	28.0	37.0
CMLFR4120AF2BJ	1.20	1200	630	958	1150	29	2.8	36	42.5	28.0	37.0
CMLFR4150AF2CJ	1.50	1200	630	958	1437	34	2.3	43	42.5	33.0	45.0
CMLFR4200AF2DJ	2.00	1200	630	587	1174	29	3.6	45	57.5	30.0	45.0
CMLFR4220AF2DJ	2.20	1200	630	587	1291	30	3.3	45	57.5	30.0	45.0
CMLFR4250AF2DJ	2.50	1200	630	587	1468	32	2.9	45	57.5	30.0	45.0
CMLFR4300AF2EJ	3.00	1200	630	587	1761	37	2.5	48	57.5	35.0	50.0
CMLFR4330AF2EJ	3.30	1200	630	587	1937	39	2.3	48	57.5	35.0	50.0
CMLFX3100AF2AJ	0.10	2000	700	1367	137	10	23.3	41	42.0	20.0	39.5
CMLFX3150AF2AJ	0.15	2000	700	1367	205	12	15.6	41	42.0	20.0	39.5
CMLFX3220AF2AJ	0.22	2000	700	1367	301	14	10.7	41	42.0	20.0	39.5
CMLFX3330AF2AJ	0.33	2000	700	1367	451	17	7.2	41	42.0	20.0	39.5
CMLFX3470AF2AJ	0.47	2000	700	1367	642	20	5.1	41	42.0	20.0	39.5
CMLFX3680AF2FJ	0.68	2000	700	1367	930	26	3.6	43	42.5	33.0	45.0
CMLFX3820AF2CJ	0.82	2000	700	1367	1121	30	3.0	43	42.5	33.0	45.0
CMLFX4100AF2DJ	1.00	2000	700	847	847	24	5.1	45	57.5	30.0	45.0
CMLFX4120AF2DJ	1.20	2000	700	847	1016	26	4.3	45	57.5	30.0	45.0
CMLFX4150AF2EJ	1.50	2000	700	847	1271	31	3.5	48	57.5	35.0	50.0

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