

# Type DAWN-DGT, GTO Snubber Capacitors (无感直流滤波电容器)

Style DGT

Direct Mount(直接安装)

Hi-Frequency (20-100KHZ)

GTO Snubber Capacitor

Very low self-inductance

High pulse reliability

High rms current carrying capability

Excellent self-healing properties

High shock and vibration resistance

Outstanding mechanical stability

Almost unlimited life expectancy

\*很低的自感

\*高脉冲可靠性

\*高的有效电流承载能力

\*优良的自修复特性

\*高的抗冲击和振动性

\*突出的机械稳定性

\*几乎无限的寿命期望值



深圳市天明伟业电子有限公司

(实物图)

GTO MKP capacitors are especially designed to attenuate voltage spikes on GTO (Gate-Turn-Off) Thyristors and IGBT (Insulated Gate Bipolar Transistor). They are manufactured in dry-type technology with a dielectric of metallized polypropylene film and encapsulated in a cylindrical plastic case sealed with self-extinguishing polyurethane resin. Their construction creates outstanding features

## Speciricaios&Highlights

.Voltage Range:400-3000Vdc

.Rated Capacitance (Cn) 0.22 $\mu$ F to 10  $\mu$ F

.Withstand Voltage:1.5Un/60s

.Capacitance Tolerance:  $\pm$  10%

Referenced standard:IEC61071 GB17702.1

.Low inductance < 20 nH

Effective Current:10~80A(有效电流)

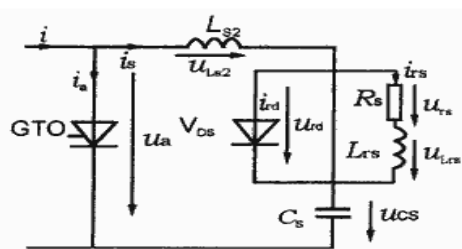
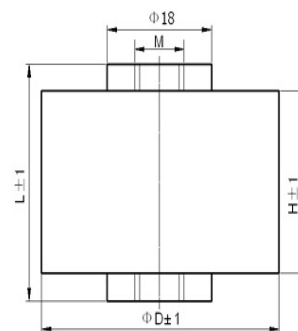


图 1 GTO 缓冲电路示意图

## Outline Drawing

电容器: CS

电压等级表				
序号	型号	额定电压		容量范围 (MFD)
		直流电压	交流电压	
1	DGT-GTO	1000VDC	500VAC	1.0~10
2	DGT-GTO	1200VDC	550VAC	1.0~8.0
3	DGT-GTO	1600VDC	600VAC	1.0~5.0
4	DGT-GTO	2000VDC	1000VAC	1.0~4.0
5	DGT-GTO	2500VDC	1200VAC	0.47~2.2
6	DGT-GTO	3000VDC	1500VAC	0.47~1.5
7	DGT-GTO	4500VDC	2000VAC	0.47~1.0
8	DGT-GTO	8000VDC	3500VAC	0.22~0.68



结构图

Note: Other capacitance values, voltages, lug orientations and terminal hole spacings are available. Please contact us.

Longhua Town, Bao'an District, Shenzhen .GuangDong .China

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<http://www.dawn-cap.cn>



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### Ratings and Dimensions

電容器代號	C	Un	U <sub>RM</sub> s	dv/dt	I <sub>PEAK</sub>	ESR	I <sub>RMS</sub>	DIMENSIONS		
						max @ 100 kHz	100KHz @ 70°C	(mm)		
	μF	Vdc	Vac	V/μs	A	mΩ	A	W	H	T

#### GTO-Sunbber capacitors 1000VDC (500VAC)

MKP-DGT-GTO105J1000V	1	1000	500	880	880	3	15.9	45	52	M6×9
MKP-DGT-GTO125J1000V	1.2	1000	500	880	1056	3	17.4	45	52	M6×9
MKP-DGT-GTO155J1000V	1.5	1000	500	880	1320	3	19.4	50	52	M6×9
MKP-DGT-GTO205J1000V	2	1000	500	880	1760	2	22.1	55	52	M8×12
MKP-DGT-GTO305J1000V	3	1000	500	880	2640	2	27	60	52	M8×12
MKP-DGT-GTO405J1000V	4	1000	500	880	3520	2	31	76	52	M8×12
MKP-DGT-GTO505J1000V	5	1000	500	550	2750	2	32.1	65	61	M8×12
MKP-DGT-GTO605J1000V	6	1000	500	550	3300	2	33.2	76	61	M8×12
MKP-DGT-GTO705J1000V	7	1000	500	400	2800	3	34	60	78	M8×12
MKP-DGT-GTO805J1000V	8	1000	500	400	3200	2	34.5	65	78	M8×12
MKP-DGT-GTO106J1000V	10	1000	500	400	4000	2	35	76	78	M8×12

#### GTO-Sunbber capacitors 1200VDC (550VAC)

MKP-DGT-GTO105J1200V	1	1200	550	1000	1000	3	17	45	52	M6×9
MKP-DGT-GTO125J1200V	1.2	1200	550	1000	1200	3	19.5	45	52	M6×9
MKP-DGT-GTO155J1200V	1.5	1200	550	1000	1500	3	21.6	50	52	M8×12
MKP-DGT-GTO205J1200V	2	1200	550	1000	2000	2	24.8	60	52	M8×12
MKP-DGT-GTO225J1200V	2.2	1200	550	1000	2200	2	26	60	52	M8×12
MKP-DGT-GTO275J1200V	2.7	1200	550	1000	2700	2	28.7	65	52	M8×12
MKP-DGT-GTO305J1200V	3	1000	500	1000	3000	2	30.2	76	52	M8×12
MKP-DGT-GTO405J1200V	4	1200	550	650	2600	2	31.5	65	61	M8×12
MKP-DGT-GTO505J1200V	5	1200	550	650	3250	2	33.6	76	61	M8×12
MKP-DGT-GTO605J1200V	6	1200	550	500	3000	2	34.3	65	78	M8×12
MKP-DGT-GTO805J1200V	8	1200	550	500	4000	2	35.1	76	78	M8×12

Note: Other capacitance values, voltages, lug orientations and terminal hole spacings are available. Please contact us.

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電容器代號	C	Un	$U_{RMS}$ s	dv/dt	$I_{PEAK}$	ESR	$I_{RMS}$	DIMENSIONS		
						max @ 100 kHz	100KHz @ 70°C	(mm)		
	$\mu F$	Vdc	Vac	V/ $\mu s$	A	m $\Omega$	A	W	H	T

### GTO-Sunbber capacitors 1600VDC (600VAC)

MKP-DGT-GTO125J1600V	1.2	1600	600	1300	1560	3	25.5	55	52	M8×12
MKP-DGT-GTO155J1600V	1.5	1600	600	1300	1950	3	28.4	60	52	M8×12
MKP-DGT-GTO205J1600V	2	1600	600	1300	2600	2	32.7	76	52	M8×12
MKP-DGT-GTO225J1600V	2.2	1600	600	840	1848	2	33	60	61	M8×12
MKP-DGT-GTO275J1600V	2.7	1600	600	840	2268	2	33.9	65	61	M8×12
MKP-DGT-GTO305J1600V	3	1600	600	840	2520	2	34.8	76	61	M8×12
MKP-DGT-GTO405J1600V	4	1600	600	550	2200	2	35.2	65	78	M8×12
MKP-DGT-GTO475J1600V	4.7	1600	600	550	2585	2	36.3	65	78	M8×12
MKP-DGT-GTO505J1600V	5	1600	600	550	2750	2	36.5	76	78	M8×12

### GTO-Sunbber capacitors 2000VDC (1000VAC)

MKP-DGT-GTO474J2000V	0.47	2000	1000	1700	799	3	20.4	45	52	M8×12
MKP-DGT-GTO684J2000V	0.68	2000	1000	1700	1156	3	24.3	50	52	M8×12
MKP-DGT-GTO105J2000V	1	2000	1000	1700	1700	3	29.2	60	52	M8×12
MKP-DGT-GTO125J2000V	1.2	2000	1000	1700	2040	2	31.9	65	52	M8×12
MKP-DGT-GTO155J2000V	1.5	2000	1000	1700	2550	2	33	76	52	M8×12
MKP-DGT-GTO205J2000V	2	2000	1000	1000	2000	2	34.3	65	61	M8×12
MKP-DGT-GTO225J2000V	2.2	2000	1000	1000	2200	2	34.8	76	61	M8×12
MKP-DGT-GTO305J2000V	3	2000	1000	700	2100	2	35.3	65	78	M8×12
MKP-DGT-GTO335J2000V	3.3	2000	1000	700	2310	2	36.1	65	78	M8×12
MKP-DGT-GTO405J2000V	4	2000	1000	700	2800	2	37	76	78	M8×12

### GTO-Sunbber capacitors 2500VDC (1200VAC)

MKP-DGT-GTO504J2500V	50	2500	1300	1200	780	2	20.5	45	55	M8×12
MKP-DGT-GTO684J2500V	0.68	2500	1300	1200	816	2	22.7	50	65	M8×12
MKP-DGT-GTO754J2500V	0.75	2500	1300	1200	900	2	23.8	50	78	M8×12
MKP-DGT-GTO105J2500V	1	2500	1300	1200	1200	2	27.3	60	90	M8×12
MKP-DGT-GTO125J2500V	1.2	2500	1300	1200	1440	2	29.8	65	90	M8×12
MKP-DGT-GTO155J2500V	1.5	2500	1300	1200	1800	2	33.2	76	90	M8×12
MKP-DGT-GTO205J2500V	2	2500	1300	780	1560	2	33.6	65	110	M8×12
MKP-DGT-GTO225J2500V	2.2	2500	1300	780	1716	2	34.2	76	110	M8×12

**Note: Other capacitance values, voltages, lug orientations and terminal hole spacings are available. Please contact us.**

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電容器代號	C	Un	U <sub>RM</sub> s	dv/dt	I <sub>PEAK</sub>	ESR	I <sub>RMS</sub>	DIMENSIONS		
	μF	Vdc	Vac	V/μs	A	max @ 100 kHz	100KHz @ 70°C	(mm)		
						mΩ	A	W	H	T
<b>GTO-Sunbber capacitors 3000VDC (1500VAC)</b>										
MKP-DGT-GTO504J3000V	0.5	3000	1500	1560	780	3	23.4	50	90	M8×12
MKP-DGT-GTO564J3000V	0.56	3000	1500	1560	874	3	24.7	55	90	M8×12
MKP-DGT-GTO684J3000V	0.68	3000	1500	1560	1061	2	27.1	60	90	M8×12
MKP-DGT-GTO754J3000V	0.75	3000	1500	1560	1170	2	28.4	60	90	M8×12
MKP-DGT-GTO105J3000V	1	3000	1500	1560	1560	2	32.7	76	90	M8×12
MKP-DGT-GTO155J3000V	1.5	3000	1500	1008	1512	2	33.3	76	110	M8×12
MKP-DGT-IGBT105K2000V	1	2000	1500	580	580	5	16.5	58	50	M8×12
<b>GTO-Sunbber capacitors 4500VDC (2000VAC)</b>										
MKP-DGT-GTO224J4000V	0.22	4000	2000	2040	449	3	17.7	45	90	M8×12
MKP-DGT-GTO334J4000V	0.33	4000	2000	2040	673	3	21.1	50	90	M8×12
MKP-DGT-GTO504J4000V	0.5	4000	2000	2040	1020	2	25.3	60	90	M8×12
MKP-DGT-GTO604J4000V	0.6	4000	2000	2040	1224	2	27.7	65	90	M8×12
MKP-DGT-GTO754J4000V	0.75	4000	2000	2040	1530	2	30.9	76	90	M8×12
MKP-DGT-GTO105J4000V	1	4000	2000	1200	1200	2	31.3	65	110	M8×12
<b>GTO-Sunbber capacitors 8000VDC (3500VAC)</b>										
MKP-DGT-GTO224J8000V	0.22	8000	3500	2500	550	3	22	45	90	M8×12
MKP-DGT-GTO334J8000V	0.33	8000	3500	2500	810	3	22	50	100	M8×12
MKP-DGT-GTO334J8000V	0.47	8000	3500	2500	950	3	22	65	120	M8×12
MKP-DGT-GTO334J8000V	0.68	8000	3500	2500	1450	3	22	76	135	M8×12

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