



THZ *NEW - In Progress*

- MKP • box with multiple radial terminals
- High reliability • AC Power • Harsh environment



Main applications

AC power applications, input-output AC filtering, harsh environment applications

Dielectric

Polypropylene

Electrodes

Vacuum deposited metal layers

Coating

Solvent resistant plastic case with resin sealing (UL 94 V-0). Flame retardant execution

Construction

Extended metallized film: internal series connection for $U_r > 300$ Vac (refer to General Technical Information)

Terminals

Tinned copper wire (lead-free). 2x terminals ($S=5\pm 1$ mm, $L=25\pm 5$ mm leads length), 4x terminals ($SD=5,5\pm 1,5$ mm) or 6x terminals ($ST=5,5\pm 1,5$ mm) execution (please refer to article table)

Degree of protection

IP00

Installation

Whatever position assuring correct heat dissipation. Arrangement of many components with box walls in contact not admitted; suggested minimum distance between side by side elements $\geq 1/8$ of the box thickness (B size)

Reference standard

IEC 61071, IEC 60068, RoHS compliant, (AEC Q-200, for biased damp heat tests only)

Climatic category

40/85/56 (IEC 60068/1), GPD (DIN40040)

Operating temperature range (case)

$-40^\circ\text{C} \dots +85^\circ\text{C}$ (+100°C observing voltage and current de-rating)

Max. permissible ambient temperature

+70°C operation at rated power, current, voltage and natural cooling (+85°C observing voltage and current de-rating)

Nominal Capacitance (Cn) μF

0,68 μF to 47 μF . Refer to article table

Capacitance tolerance (at 1kHz)

$\pm 10\%$ (code=K), $\pm 5\%$ (code=J). Other tolerances upon request

Capacitance temperature coefficient

Refer to General Technical Information

Long term stability (at 1kHz)

Capacitance variation $\leq \pm 1\%$ after a period of 2 years at standard environmental conditions

Rated DC voltage (Ur, up to +85°C)

450, 550, 630, 720, 800, 900, 1040 Vdc (RH < 30%)

Rated AC voltage (Urms, up to +85°C)

240, 300, 340, 400, 440, 485, 550 Vac (RH < 30%)

Temperature de-rated voltage

For operating temperature (case) $> +85^\circ\text{C}$, U_r must be decreased 1,5% for every $^\circ\text{C}$ exceeding $+85^\circ\text{C}$, U_{rms} must be decreased 2,5% for every $^\circ\text{C}$ exceeding $+85^\circ\text{C}$

Non recurrent surge voltage (Upk)

560, 685, 785, 900, 1000, 1125, 1300 Vdc

Self inductance

≤ 1 nH/mm of fixing pitch

Maximum pulse rise time V/ μs

Refer to article table

Maximum peak current (Ipeak)

Refer to article table. Max. non repetitive $I_{pk} = 1,5 \times I_{peak}$

Insulation resistance (R_{INS})

$\geq 30000\text{s}$ when measured between terminals, at $25\pm 5^\circ\text{C}$, after 1 minute of electrification at 100Vdc

Dissipation factor (DF), max.

$\text{tg}\delta \times 10^{-4}$, measured at $25 \pm 5^\circ\text{C}$, 1 kHz

$C_n \leq 1 \mu\text{F}$	$1 \mu\text{F} < C_n \leq 2,7 \mu\text{F}$	$2,7 \mu\text{F} < C_n \leq 8 \mu\text{F}$	$8 \mu\text{F} < C_n \leq 17 \mu\text{F}$	$C_n > 17 \mu\text{F}$
7	9	11	14	18

Test voltage between terminals (Ut)

1,6xUr (DC) applied for 60s / 1.6xUrms (AC) applied for 60s, at $25\pm 5^\circ\text{C}$

Test voltage between terminals and case (Utc)

3kV 50÷60Hz applied for 60s at $25 \pm 5^\circ\text{C}$

Damp heat test (steady state; not biased)

Test conditions:

Temperature = $+40 \pm 2^\circ\text{C}$

Relative humidity = $93 \pm 2\%$

Test duration = 56 days

Performance:

Capacitance change $\leq \pm 2\%$

DF change ≤ 0.0010 at 1kHz

$R_{INS} \geq 50\%$ of initial limit value

Biased damp heat tests

AEC Q-200 - cockpit - Test conditions:

Rated Urms

Temperature = $+40 \pm 2^\circ\text{C}$

Relative humidity = $93 \pm 2\%$

Test duration = 1000h

70/70/1000 - Test conditions:

Rated Urms

Temperature = $+70 \pm 2^\circ\text{C}$

Relative humidity = $70 \pm 2\%$

Test duration = 1000h

IEC60068-2-67 Humidity load test, Test Cy - Test conditions:

Rated Urms

Temperature = $+85 \pm 2^\circ\text{C}$

Relative humidity = $85 \pm 2\%$

Test duration = 504h

AEC Q-200 - 85/85/1000 - Level 1 - Test conditions:

De-rated Urms: 195, 240, 280, 330, 360, 400, 450 Vac

Temperature = $+85 \pm 2^\circ\text{C}$

Relative humidity = $85 \pm 2\%$

Test duration = 1000h

Performance:

Capacitance change $\leq \pm 10\%$

DF change $\leq 2 \times$ initial limit at 1kHz

$IR \geq 50\%$ of initial limit value

Box distortion $\leq 1/20$ of the nominal box sizes (ref. GTI Chapter) or ≤ 1 mm, whichever is the highest

Typical capacitance change versus operating time

-3% after 30000 hours at Urms or after 100000 hours at Ur

Life expectancy

≥ 100000 hours (Ur); 30000 hours (Urms); RH < 30%

Failure quota

300/10⁹ component hours

Resistance to soldering heat test

Test conditions:

Solder bath temperature = $+260 \pm 5^\circ\text{C}$

Dipping time (with heat screen) = 10 ± 1 s

Performance:

Capacitance change $\leq \pm 1\%$

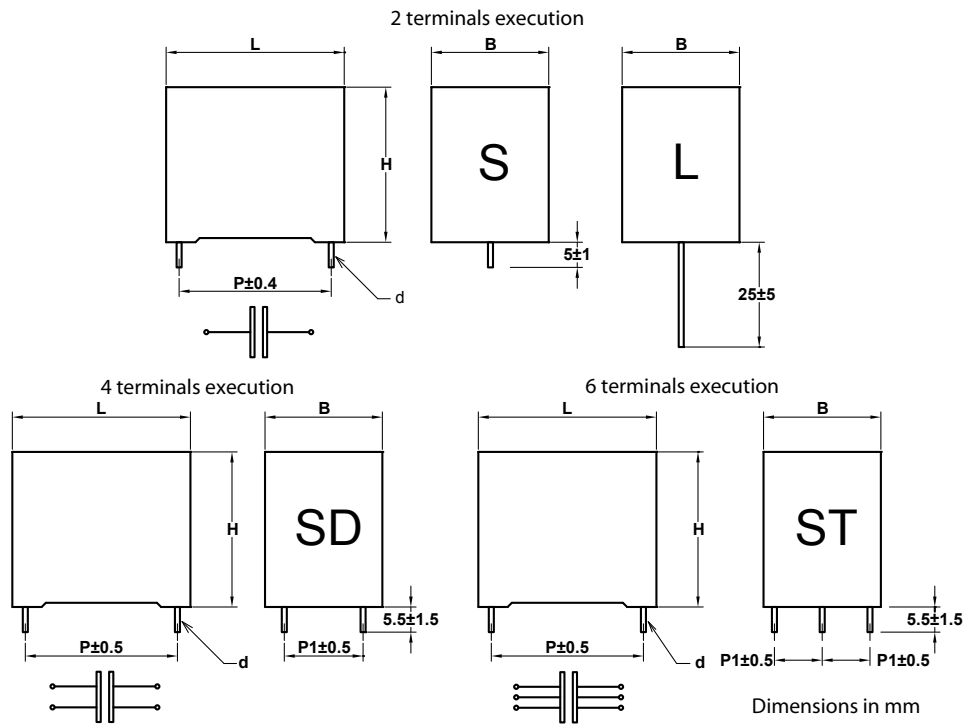
DF change ≤ 0.0010 at 1kHz

$R_{INS} \geq 50\%$ of initial limit value



THZ *NEW - In Progress*

- MKP • box with multiple radial terminals
- High reliability • AC Power • Harsh environment



THZ article table (different values available upon request)

Voltage at +85°C			Cn µF	Dimensions (mm)						du/dt V/µs	Ipeak A	Irms ⁽²⁾ A	ESR ⁽³⁾ mΩ	ICEL CODE ⁽¹⁾
Ur (Vdc)	Urms (Vac) ⁽⁴⁾	Upk (Vdc)		B	H	L	d	P	P1					
450	240	560	3	14	28	32	1.2	27.5	-	62.5	187.5	7	11.5	THZM0504300*HS
450	240	560	3.3	14	28	32	1.2	27.5	-	62.5	206.2	7.5	10.5	THZM0504330*HS
450	240	560	4.7	18	33	32	1.2	27.5	-	62.5	293.7	9.5	8.8	THZM504470*HS
450	240	560	5	18	33	32	1.2	27.5	-	62.5	312.5	9.5	8.6	THZM504500*HS
450	240	560	5	17	28	42.5	1.2	37.5	-	42.5	212.5	7.5	12	THZM504500*JS
450	240	560	5.6	17	28	42.5	1.2	37.5	-	42.5	238	8	11	THZM504560*JS
450	240	560	6.8	22	37	32	1.2	27.5	-	62.5	425	11	7.6	THZM504680*HS
450	240	560	6.8	22	37	32	1.2	27.5	10.2	62.5	425	12	7	THZM504680*HSD
450	240	560	6.8	17	32	42	1.2	37.5	-	42.5	289	9	9.1	THZM504680*JS
450	240	560	7.5	22	37	32	1.2	27.5	-	62.5	468.7	12	6.9	THZM504750*HS
450	240	560	7.5	22	37	32	1.2	27.5	10.2	62.5	468.7	13	6.3	THZM504750*HSD
450	240	560	8	22	30	42.5	1.2	37.5	-	42.5	340	10	7.9	THZM504800*JS
450	240	560	9	22	33.5	42.5	1.2	37.5	-	42.5	382.5	11	7.3	THZM504900*JS
450	240	560	9	22	33.5	42.5	1.2	37.5	10.2	42.5	382.5	12	6.7	THZM504900*JSD
450	240	560	10	20	40	41.5	1.2	37.5	-	42.5	425	13	6.7	THZM505100*JS
450	240	560	10	20	40	41.5	1.2	37.5	10.2	42.5	425	14	6.1	THZM505100*JSD
450	240	560	12.5	28	37	42.5	1.2	37.5	-	42.5	531.2	13	6.1	THZM505125*JS
450	240	560	12.5	28	37	42.5	1.2	37.5	10.2	42.5	531.2	14.5	5.5	THZM505125*JSD
450	240	560	14	28	37	42.5	1.2	37.5	-	42.5	595	14	5.6	THZM505140*JS
450	240	560	14	28	37	42.5	1.2	37.5	10.2	42.5	595	15.5	5	THZM505140*JSD

⁽¹⁾ Change the * symbol with the needed Cap. tol. code: J=±5%, K=±10%, the # symbol with S for 5mm, L for 25mm lead length and §§ symbols with needed lugs style

⁽²⁾ Max. at 100kHz, +70°C for case operating T= +85°C (at Tamb >+70°C and Tcase>+85°C (voltage and Irms de-rating must be observed), C tol. ≤±10% (for wider C tolerance, ESR variation must be taken in consideration)

⁽³⁾ Typical values at 100kHz (for operating frequencies far from the reference, ESR variation and related power dissipation variation must be taken in consideration)

⁽⁴⁾ Not suitable for across the line application; please refer to de-rated voltages for THB test/usage

⁽⁵⁾ Not available with C tolerance < ±10%



THZ *NEW - In Progress*

- MKP • box with multiple radial terminals
- High reliability • AC Power • Harsh environment



Voltage at +85°C			Cn µF	Dimensions (mm)						du/dt V/µs	Ipeak A	Irms ⁽²⁾ A	ESR ⁽³⁾ mΩ	ICEL CODE ⁽¹⁾
Ur (Vdc)	Urms (Vac) ⁽⁴⁾	Upk (Vdc)		B	H	L	d	P	P1					
450	240	560	15	24	44	41.5	1.2	37.5	-	42.5	637.5	14	5.4	THZM505150*JS
450	240	560	15	24	44	41.5	1.2	37.5	10.2	42.5	637.5	17.5	4.8	THZM505150*JSD
450	240	560	18	30	45	42.5	1.2	37.5	-	42.5	765	14	4.9	THZM505180*JS
450	240	560	18	30	45	42.5	1.2	37.5	20.3	42.5	765	18.5	4.3	THZM505180*JSD
450	240	560	20	30	45	42.5	1.2	37.5	-	42.5	850	14	4.7	THZM505200*JS
450	240	560	20	30	45	42.5	1.2	37.5	20.3	42.5	850	19.5	4.1	THZM505200*JSD
450	240	560	22	35	50	42	1.2	37.5	-	42.5	935	14	4.5	THZM505220*JS
450	240	560	22	35	50	42	1.2	37.5	20.3	42.5	965	22.5	3.9	THZM505220*JSD
450	240	560	22	30	45	57.5	1.2	52.5	-	28.5	627	14	5.5	THZM505220*RS
450	240	560	22	30	45	57.5	1.2	52.5	20.3	28.5	627	18	4.9	THZM505220*RSD
450	240	560	25	35	50	42	1.2	37.5	-	42.5	1062.5	14	4.1	THZM505250*JS
450	240	560	25	35	50	42	1.2	37.5	20.3	42.5	1062.5	24	3.5	THZM505250*JSD
450	240	560	25	30	45	57.5	1.2	52.5	-	28.5	712.5	14	5.1	THZM505250*RS
450	240	560	25	30	45	57.5	1.2	52.5	20.3	28.5	712.5	19	4.5	THZM505250*RSD
450	240	560	33	35	50	57.5	1.2	52.5	-	28.5	940.5	14	4.4	THZM505330*RS
450	240	560	33	35	50	57.5	1.2	52.5	20.3	28.5	940.5	22	3.8	THZM505330*RSD
450	240	560	35	35	50	57.5	1.2	52.5	-	28.5	997.5	14	4.3	THZM505350*RS
450	240	560	35	35	50	57.5	1.2	52.5	20.3	28.5	997.5	22.5	3.7	THZM505350*RSD
450	240	560	37.5	35	50	57.5	1.2	52.5	-	28.5	1068.7	14	4.1	THZM505375*RS
450	240	560	37.5	35	50	57.5	1.2	52.5	20.3	28.5	1068.7	23	3.5	THZM505375*RSD
450	240	560	43	38	57.5	57.5	1.2	52.5	20.3	28.5	1225.5	26	3.2	THZM505430*RSD
450	240	560	47	38	57.5	57.5	1.2	52.5	20.3	28.5	1339.5	27	3	THZM505470*RSD
550	300	685	2.2	14	28	32	1.2	27.5	-	82.5	181.5	7	10.5	THZM604220*HS
550	300	685	3	18	33	32	1.2	27.5	-	82.5	247.5	9	9.1	THZM604300*HS
550	300	685	3.3	18	33	32	1.2	27.5	-	82.5	272.2	9.5	8.7	THZM604330*HS
550	300	685	3.9	17	28	42.5	1.2	37.5	-	54	210.6	8.5	9.1	THZM604390*JS
550	300	685	4.7	22	37	32	1.2	27.5	-	82.5	387.7	11.5	7.2	THZM604470*HS
550	300	685	4.7	22	37	32	1.2	27.5	10.2	82.5	387.7	12.5	6.6	THZM604470*HSD
550	300	685	4.7	17	32	42	1.2	37.5	-	54	253.8	10	7.8	THZM604470*JS
550	300	685	5	22	37	32	1.2	27.5	-	82.5	412.5	12	6.9	THZM604500*HS
550	300	685	5	22	37	32	1.2	27.5	10.2	82.5	412.5	13	6.3	THZM604500*HSD
550	300	685	5.6	22	30	42.5	1.2	37.5	-	54	302.4	10.5	7.2	THZM604560*JS
550	300	685	6.8	22	33.5	42.5	1.2	37.5	-	54	367.2	11.5	6.5	THZM604680*JS
550	300	685	6.8	22	33.5	42.5	1.2	37.5	10.2	54	367.2	12.5	5.9	THZM604680*JSD
550	300	685	7.5	20	40	41.5	1.2	37.5	-	54	405	13.5	6.2	THZM604750*JS
550	300	685	7.5	20	40	41.5	1.2	37.5	10.2	54	405	14.5	5.6	THZM604750*JSD
550	300	685	8	28	37	42.5	1.2	37.5	-	54	432	13.5	6	THZM604800*JS
550	300	685	8	28	37	42.5	1.2	37.5	10.2	54	432	14.5	5.4	THZM604800*JSD
550	300	685	9	28	37	42.5	1.2	37.5	-	54	486	14	5.6	THZM604900*JS
550	300	685	9	28	37	42.5	1.2	37.5	10.2	54	486	15.5	5	THZM604900*JSD
550	300	685	10	24	44	41.5	1.2	37.5	-	54	540	14	5.4	THZM605100*JS
550	300	685	10	24	44	41.5	1.2	37.5	10.2	54	540	17.5	4.8	THZM605100*JSD
550	300	685	12.5	30	45	42.5	1.2	37.5	-	54	675	14	4.8	THZM605125*JS
550	300	685	12.5	30	45	42.5	1.2	37.5	20.3	54	675	19	4.2	THZM605125*JSD

⁽¹⁾ Change the * symbol with the needed Cap. tol. code: J=±5%, K=±10%, the # symbol with S for 5mm, L for 25mm lead length and \$\$ symbols with needed lugs style

⁽²⁾ Max. at 100kHz, +70°C for case operating T= +85°C (at Tamb >+70°C and Tcase>+85°C (voltage and Irms de-rating must be observed), C tol. ≤±10% (for wider C tolerance, ESR variation must be taken in consideration)

⁽³⁾ Typical values at 100kHz (for operating frequencies far from the reference, ESR variation and related power dissipation variation must be taken in consideration)

⁽⁴⁾ Not suitable for across the line application; please refer to de-rated voltages for THB test/usage

⁽⁴⁾ Not available with C tolerance < ±10%



THZ *NEW - In Progress*

- MKP • box with multiple radial terminals
- High reliability • AC Power • Harsh environment



Voltage at +85°C			Cn µF	Dimensions (mm)						du/dt V/µs	Ipeak A	Irms ⁽²⁾ A	ESR ⁽³⁾ mΩ	ICEL CODE ⁽¹⁾
Ur (Vdc)	Urms (Vac) ⁽⁴⁾	Upk (Vdc)		B	H	L	d	P	P1					
550	300	685	15	35	50	42	1.2	37.5	-	54	810	14	4.3	THZM605150*JS
550	300	685	15	35	50	42	1.2	37.5	20.3	54	810	22.5	3.7	THZM05150*JSD
550	300	685	15	30	45	57.5	1.2	52.5	-	36.5	547.5	14	5.8	THZM605150*RS
550	300	685	15	30	45	57.5	1.2	52.5	20.3	36.5	547.5	17	5.2	THZM605150*RSD
550	300	685	17.5	35	50	42	1.2	37.5	-	54	945	14	3.9	THZM605175*JS
550	300	685	17.5	35	50	42	1.2	37.5	20.3	54	945	24.5	3.3	THZM605175*JSD
550	300	685	18	30	45	57.5	1.2	52.5	-	36.5	657	14	5.1	THZM605180*RS
550	300	685	18	30	45	57.5	1.2	52.5	20.3	36.5	657	19	4.5	THZM605180*RSD
550	300	685	20	35	50	57.5	1.2	52.5	-	36.5	730	14	4.7	THZMZ605200*RS
550	300	685	20	35	50	57.5	1.2	52.5	20.3	36.5	730	21	4.1	THZM605200*RSD
550	300	685	22	35	50	57.5	1.2	52.5	-	36.5	803	14	4.5	THZM605220*RS
550	300	685	22	35	50	57.5	1.2	52.5	20.3	36.5	803	22	3.9	THZM605220*RSD
550	300	685	25	35	50	57.5	1.2	52.5	-	36.5	912.5	14	4.2	THZM605250*RS
550	300	685	25	35	50	57.5	1.2	52.5	20.3	36.5	912.5	23	3.6	THZM605250*RSD
550	300	685	30	38	57.5	57.5	1.2	52.5	20.3	36.5	1095	26	3.3	THZM605300*RSD
550	300	685	33	38	57.5	57.5	1.2	52.5	20.3	36.5	1204.5	27	3.1	THZM6055330*RSD
630	340	785	1.5	14	28	32	1.2	27.5	-	182.5	273.7	7.5	10	THZS354150*HS
630	340	785	2	18	33	32	1.2	27.5	-	182.5	365	10	8	THZS354200*HS
630	340	785	2.2	18	33	32	1.2	27.5	-	182.5	401.5	10.5	7.5	THZS354220*HS
630	340	785	2.2	17	28	42.5	1.2	37.5	-	121.5	267.3	8	10	THZS354220*JS
630	340	785	2.5	17	28	42.5	1.2	37.5	-	121.5	303.7	8.5	9.3	THZS354250*JS
630	340	785	3	22	37	32	1.2	27.5	-	182.5	547.5	12.5	6.5	THZS354300*HS
630	340	785	3	22	37	32	1.2	27.5	10.2	182.5	547.5	13.5	5.9	THZS354300*HSD
630	340	785	3	17	32	42	1.2	37.5	-	121.5	364.5	10	8	THZS354300*JS
630	340	785	3.3	22	37	32	1.2	27.5	-	182.5	602.2	13	6.2	THZS354330*HS
630	340	785	3.3	22	37	32	1.2	27.5	10.2	182.5	602.2	14	5.6	THZS354330*HSD
630	340	785	3.3	22	30	42.5	1.2	37.5	-	121.5	400.9	10.5	7.4	THZS354330*JS
630	340	785	4	22	33.5	42.5	1.2	37.5	-	121.5	486	12	6.3	THZS354400*JS
630	340	785	4	22	33.5	42.5	1.2	37.5	10.2	121.5	486	13	5.7	THZS354400*JSD
630	340	785	4.7	20	40	41.5	1.2	37.5	-	121.5	571	14	5.6	THZS354470*JS
630	340	785	4.7	20	40	41.5	1.2	37.5	10.2	121.5	571	15.5	5	THZS354470*JSD
630	340	785	5	20	40	41.5	1.2	37.5	-	121.5	607.5	14	5.5	THZS354500*JS
630	340	785	5	20	40	41.5	1.2	37.5	10.2	121.5	607.5	16	4.9	THZS354500*JSD
630	340	785	5.6	28	37	42.5	1.2	37.5	-	121.5	680.4	14	5.3	THZS354560*JS
630	340	785	5.6	28	37	42.5	1.2	37.5	10.2	121.5	680.4	15.5	4.7	THZS354560*JSD
630	340	785	6	28	37	42.5	1.2	37.5	-	121.5	729	14	5	THZS354600*JS
630	340	785	6	28	37	42.5	1.2	37.5	10.2	121.5	729	16	4.6	THZS354600*JSD
630	340	785	6.8	24	44	41.5	1.2	37.5	-	121.5	826.2	14	4.7	THZS354680*JS
630	340	785	6.8	24	44	41.5	1.2	37.5	10.2	121.5	826.2	18.5	4.1	THZS354680*JSD
630	340	785	7.5	24	44	41.5	1.2	37.5	-	121.5	911.2	14	4.5	THZS354750*JS ^(A)
630	340	785	7.5	24	44	41.5	1.2	37.5	10.2	121.5	911.2	19.5	3.9	THZS354750*JSD ^(A)
630	340	785	8	30	45	42.5	1.2	37.5	-	121.5	972	14	4.4	THZS354800*JS
630	340	785	8	30	45	42.5	1.2	37.5	20.3	121.5	972	20	3.8	THZS354800*JSD
630	340	785	9	30	45	42.5	1.2	37.5	-	121.5	1093.5	14	4.1	THZS354900*JS
630	340	785	9	30	45	42.5	1.2	37.5	20.3	121.5	1093.5	21	3.5	THZS354900*JSD

⁽¹⁾ Change the * symbol with the needed Cap. tol. code: J=±5%, K=±10%, the # symbol with S for 5mm, L for 25mm lead length and §§ symbols with needed lugs style

⁽²⁾ Max. at 100kHz, +70°C for case operating T= +85°C (at Tamb >+70°C and Tcase>+85°C (voltage and Irms de-rating must be observed), C tol. ≤±10% (for wider C tolerance, ESR variation must be taken in consideration)

⁽³⁾ Typical values at 100kHz (for operating frequencies far from the reference, ESR variation and related power dissipation variation must be taken in consideration)

⁽⁴⁾ Not suitable for across the line application; please refer to de-rated voltages for THB test/usage

^(A) Not available with C tolerance < ±10%



THZ *NEW - In Progress*

- MKP • box with multiple radial terminals
- High reliability • AC Power • Harsh environment



Voltage at +85°C			Cn µF	Dimensions (mm)						du/dt V/µs	Ipeak A	Irms ⁽²⁾ A	ESR ⁽³⁾ mΩ	ICEL CODE ⁽¹⁾
Ur (Vdc)	Urms (Vac) ⁽⁴⁾	Upk (Vdc)		B	H	L	d	P	P1					
630	340	785	10	35	50	42	1.2	37.5	-	121.5	1215	14	3.9	THZS355100*JS
630	340	785	10	35	50	42	1.2	37.5	20.3	121.5	1215	24	3.3	THZS355100*JSD
630	340	785	10	30	45	57.5	1.2	52.5	-	82.5	825	14	5.3	THZS355100*RS
630	340	785	10	30	45	57.5	1.2	52.5	20.3	82.5	825	18	4.7	THZS355100*RSD
630	340	785	12	35	50	42	1.2	37.5	-	121.5	1458	14	3.5	THZS355120*JS
630	340	785	12	35	50	42	1.2	37.5	20.3	121.5	1458	26	2.9	THZS355120*JSD
630	340	785	13	30	45	57.5	1.2	52.5	-	82.5	1072.5	14	4.5	THZS355130*RS
630	340	785	13	30	45	57.5	1.2	52.5	20.3	82.5	1072.5	20	3.9	THZS355130*RSD
630	340	785	15	35	50	57.5	1.2	52.5	-	82.5	1237.5	14	4.1	THZS355150*RS
630	340	785	15	35	50	57.5	1.2	52.5	20.3	82.5	1237.5	23	3.5	THZS355150*RSD
630	340	785	17.5	35	50	57.5	1.2	52.5	-	82.5	1443.7	14	3.7	THZS355175*RS
630	340	785	17.5	35	50	57.5	1.2	52.5	20.3	82.5	1443.7	25	3.1	THZS355175*RSD
630	340	785	20	38	57.5	57.5	1.2	52.5	20.3	82.5	1650	27	2.9	THZS355200*RSD
630	340	785	22	38	57.5	57.5	1.2	52.5	20.3	82.5	11815	27	2.7	THZS355220*RSD
630	340	785	22	38	57.5	57.5	1.2	52.5	10.2	82.5	11815	29	2.6	THZS355220*RST
720	400	900	1	14	28	32	1.2	27.5	-	220	220	7.5	9.6	THZS404100*HS
720	400	900	1.5	18	33	32	1.2	27.5	-	220	330	10	7.5	THZS404150*HS
720	400	900	1.8	17	28	42.5	1.2	37.5	-	143	257.4	8.5	9	THZS404180*JS
720	400	900	2	22	37	32	1.2	27.5	-	220	440	12	6.5	THZS404200*HS
720	400	900	2	17	28	42.5	1.2	37.5	-	143	286	9	8.3	THZS404200*JS
720	400	900	2.2	22	37	32	1.2	27.5	-	220	484	13	6.1	THZS404220*HS
720	400	900	2.2	22	37	32	1.2	27.5	10.2	220	484	14	5.5	THZS404220*HSD
720	400	900	2.2	17	32	42	1.2	37.5	-	143	314.6	10	7.7	THZS404220*JS
720	400	900	2.5	22	37	32	1.2	27.5	-	220	550	13.5	5.6	THZS404250*HS
720	400	900	2.5	22	37	32	1.2	27.5	10.2	220	550	14.5	5	THZS404250*HSD
720	400	900	2.5	22	30	42.5	1.2	37.5	-	143	357.5	11	7.1	THZS404250*JS
720	400	900	3	22	33.5	42.5	1.2	37.5	-	143	429	12	6.2	THZS404300*JS
720	400	900	3	22	33.5	42.5	1.2	37.5	10.2	143	429	13	5.6	THZS404300*JSD
720	400	900	3.3	22	33.5	42.5	1.2	37.5	-	143	471.9	12.5	5.8	THZS404330*JS
720	400	900	3.3	22	33.5	42.5	1.2	37.5	10.2	143	471.9	13.5	5.2	THZS404330*JSD
720	400	900	3.9	20	40	41.5	1.2	37.5	-	143	557.7	14	5.2	THZS404390*JS
720	400	900	3.9	20	40	41.5	1.2	37.5	10.2	143	557.7	16	4.6	THZS404390*JSD
720	400	900	4.7	28	37	42.5	1.2	37.5	-	143	672.1	14	4.6	THZS404470*JS
720	400	900	4.7	28	37	42.5	1.2	37.5	10.2	143	672.1	17	4	THZS404470*JSD
720	400	900	5	28	37	42.5	1.2	37.5	-	143	715	14	4.5	THZS404500*JS
720	400	900	5	28	37	42.5	1.2	37.5	10.2	143	715	17.5	3.9	THZS404500*JSD
720	400	900	5.5	24	44	41.5	1.2	37.5	-	143	786.5	14	4.2	THZS404550*JS
720	400	900	5.5	24	44	41.5	1.2	37.5	10.2	143	786.5	20	3.6	THZS404550*JSD
720	400	900	6	30	45	42.5	1.2	37.5	-	143	858	14	4	THZS40024600*JS
720	400	900	6	30	45	42.5	1.2	37.5	20.3	143	858	21	3.4	THZS404600*JSD
720	400	900	6.8	30	45	42.5	1.2	37.5	-	143	972.4	14	3.7	THZS404680*JS
720	400	900	6.8	30	45	42.5	1.2	37.5	20.3	143	972.4	22	3.1	THZS404680*JSD
720	400	900	7.5	35	50	42	1.2	37.5	-	143	1072.5	14	3.4	THZS404750*JS
720	400	900	7.5	35	50	42	1.2	37.5	20.3	143	1072.5	26	2.8	THZS404750*JSD
720	400	900	8	30	45	57.5	1.2	52.5	-	97	776	14	4.9	THZS404800*RS
720	400	900	8	30	45	57.5	1.2	52.5	20.3	97	776	19	4.3	THZS404800*RSD

⁽¹⁾ Change the * symbol with the needed Cap. tol. code: J=±5%, K=±10%, the # symbol with S for 5mm, L for 25mm lead length and §§ symbols with needed lugs style

⁽²⁾ Max. at 100kHz, +70°C for case operating T= +85°C (at Tamb >+70°C and Tcase>+85°C (voltage and Irms de-rating must be observed), C tol. ≤±10% (for wider C tolerance, ESR variation must be taken in consideration)

⁽³⁾ Typical values at 100kHz (for operating frequencies far from the reference, ESR variation and related power dissipation variation must be taken in consideration)

⁽⁴⁾ Not suitable for across the line application; please refer to de-rated voltages for THB test/usage

⁽⁴⁾ Not available with C tolerance < ±10%



THZ *NEW - In Progress*

- MKP • box with multiple radial terminals
- High reliability • AC Power • Harsh environment



Voltage at +85°C			Cn µF	Dimensions (mm)						du/dt V/µs	Ipeak A	Irms ⁽²⁾ A	ESR ⁽³⁾ mΩ	ICEL CODE ⁽¹⁾
Ur (Vdc)	Urms (Vac) ⁽⁴⁾	Upk (Vdc)		B	H	L	d	P	P1					
720	400	900	9	35	50	42	1.2	37.5	-	143	1287	14	3.1	THZS404900*JS
720	400	900	9	35	50	42	1.2	37.5	20.3	143	1287	27	2.5	THZS404900*JSD
720	400	900	9	35	50	42	1.2	37.5	10.2	143	1287	28.5	2.4	THZS404900*JST
720	400	900	10	30	45	57.5	1.2	52.5	-	97	970	14	4.3	THZS405100*RS
720	400	900	10	30	45	57.5	1.2	52.5	20.3	97	970	21	3.7	THZS405100*RSD
720	400	900	12.5	35	50	57.5	1.2	52.5	-	97	1212.5	14	3.8	THZS405125*RS
720	400	900	12.5	35	50	57.5	1.2	52.5	20.3	97	1212.5	24.5	3.2	THZS405125*RSD
720	400	900	15	38	57.5	57.5	1.2	52.5	20.3	97	1455	26.5	3	THZS405150*RSD
720	400	900	17.5	38	57.5	57.5	1.2	52.5	20.3	97	1697.5	27	2.8	THZS405175*RSD
720	400	900	17.5	38	57.5	57.5	1.2	52.5	10.2	97	1697.5	28.5	2.7	THZS405175*RST
800	440	1000	1	18	33	32	1.2	27.5	-	235	235	7.5	9	THZS454100*HS
800	440	1000	1.2	18	33	32	1.2	27.5	-	235	282	10	7.5	THZS454120*HS
800	440	1000	1.5	18	33	32	1.2	27.5	-	235	352.5	10.5	6.9	THZS454150*HS
800	440	1000	1.5	17	28	42.5	1.2	37.5	-	155	232.5	8.5	8.9	THZS454150*JS
800	440	1000	2	22	37	32	1.2	27.5	-	235	470	13	5.9	THZS454200*HS
800	440	1000	2	22	37	32	1.2	27.5	10.2	235	470	14	5.3	THZS454200*HSD
800	440	1000	2	17	32	42	1.2	37.5	-	155	310	10	7.6	THZS454200*JS
800	440	1000	2.2	22	37	32	1.2	27.5	-	235	517	13.5	5.6	THZS454220*HS ^(A)
800	440	1000	2.2	22	37	32	1.2	27.5	-	235	517	14.5	5	THZS454220*HSD ^(A)
800	440	1000	2.2	22	30	42.5	1.2	37.5	-	155	341	11	7	THZS454220*JS
800	440	1000	2.5	22	33.5	42.5	1.2	37.5	-	155	387.5	11.5	6.5	THZS454250*JS
800	440	1000	2.5	22	33.5	42.5	1.2	37.5	10.2	155	387.5	12.5	5.9	THZS454250*JSD
800	440	1000	3	20	40	41.5	1.2	37.5	-	155	465	14	5.7	THZS454300*JS
800	440	1000	3	20	40	41.5	1.2	37.5	10.2	155	465	15.5	5.1	THZS454300*JSD
800	440	1000	3.3	28	37	42.5	1.2	37.5	-	155	511.5	14	5.4	THZS454330*JS
800	440	1000	3.3	28	37	42.5	1.2	37.5	10.2	155	511.5	15	4.8	THZS454330*JSD
800	440	1000	4	28	37	42.5	1.2	37.5	-	155	620	14	4.7	THZS454400*JS
800	440	1000	4	28	37	42.5	1.2	37.5	10.2	155	620	17	4.1	THZS454400*JSD
800	440	1000	4	24	44	41.5	1.2	37.5	-	155	620	14	4.7	THZS454400*JSA
800	440	1000	4	24	44	41.5	1.2	37.5	10.2	155	620	18.5	4.1	THZS454400*JSDA
800	440	1000	4.7	30	45	42.5	1.2	37.5	-	155	728.5	14	4.2	THZS4534470*JS
800	440	1000	4.7	30	45	42.5	1.2	37.5	20.3	155	728.5	20	3.6	THZS454470*JSD
800	440	1000	5	30	45	42.5	1.2	37.5	-	155	775	14	4.1	THZS454500*JS
800	440	1000	5	30	45	42.5	1.2	37.5	20.3	155	775	20.5	3.5	THZS454500*JSD
800	440	1000	5.6	30	45	42.5	1.2	37.5	-	155	868	14	3.8	THZS454560*JS
800	440	1000	5.6	30	45	42.5	1.2	37.5	20.3	155	868	22	3.2	THZS454560*JSD
800	440	1000	6	35	50	42	1.2	37.5	-	155	930	14	3.6	THZS454600*JS
800	440	1000	6	35	50	42	1.2	37.5	20.3	155	930	25	3	THZS454600*JSD
800	440	1000	6.8	35	50	42	1.2	37.5	-	155	1054	14	3.4	THZS454680*JS
800	440	1000	6.8	35	50	42	1.2	37.5	20.3	155	1054	26	2.8	THZS454680*JSD
800	440	1000	6.8	30	45	57.5	1.2	52.5	-	105	714	14	4.8	THZS454680*RS
800	440	1000	6.8	30	45	57.5	1.2	52.5	20.3	105	714	19	4.2	THZS454680*RSD
800	440	1000	7.5	35	50	42	1.2	37.5	-	155	1162.5	14	3.2	THZS454750*JS
800	440	1000	7.5	35	50	42	1.2	37.5	20.3	155	1162.5	27	2.6	THZS454750*JSD
800	440	1000	7.5	35	50	42	1.2	37.5	10.2	155	1162.5	28.5	2.5	THZS454750*JST

⁽¹⁾ Change the * symbol with the needed Cap. tol. code: J=±5%, K=±10%, the # symbol with S for 5mm, L for 25mm lead length and §§ symbols with needed lugs style

⁽²⁾ Max. at 100kHz, +70°C for case operating T= +85°C (at Tamb >+70°C and Tcase>+85°C (voltage and I_{rms} de-rating must be observed), C tol. ≤±10% (for wider C tolerance, ESR variation must be taken in consideration)

⁽³⁾ Typical values at 100kHz (for operating frequencies far from the reference, ESR variation and related power dissipation variation must be taken in consideration)

⁽⁴⁾ Not suitable for across the line application; please refer to de-rated voltages for THB test/usage

^(A) Not available with C tolerance < ±10%



THZ *NEW - In Progress*

- MKP • box with multiple radial terminals
- High reliability • AC Power • Harsh environment



Voltage at +85°C			Cn µF	Dimensions (mm)						du/dt V/µs	Ipeak A	Irms ⁽²⁾ A	ESR ⁽³⁾ mΩ	ICEL CODE ⁽¹⁾
Ur (Vdc)	Urms (Vac) ⁽⁴⁾	Upk (Vdc)		B	H	L	d	P	P1					
800	440	1000	8	30	45	57.5	1.2	52.5	-	105	840	14	4.4	THZS454800*RS
800	440	1000	8	30	45	57.5	1.2	52.5	20.3	105	840	20.5	3.8	THZS454800*RSD
800	440	1000	10	35	50	57.5	1.2	52.5	-	105	1050	14	3.9	THZS455100*RS
800	440	1000	10	35	50	57.5	1.2	52.5	20.3	105	1050	24	3.3	THZS455100*RSD
800	440	1000	12	38	57.5	57.5	1.2	52.5	20.3	105	1260	26.5	3	THZS455120*RSD
800	440	1000	14	38	57.5	57.5	1.2	52.5	20.3	105	1470	27	2.7	THZS455140*RSD
800	440	1000	14	38	57.5	57.5	1.2	52.5	10.2	105	1470	29	2.6	THZS455140*RST
900	475	1125	0.68	14	28	32	1.2	27.5	-	272.5	185.3	7	11	THZS503680*HS
900	475	1125	1	18	33	32	1.2	27.5	-	272.5	272.5	9.5	8.4	THZS504100*HS
900	475	1125	1.2	18	33	32	1.2	27.5	-	272.5	327	10.5	6.9	THZS504120*HS ^(*)
900	475	1125	1.2	17	28	42.5	1.2	37.5	-	180	216	8.5	9.4	THZS504120*JS
900	475	1125	1.5	22	37	32	1.2	27.5	-	272.5	408.7	12.5	6.3	THZS504150*HS
900	475	1125	1.5	22	37	32	1.2	27.5	10.2	272.5	408.7	13.5	5.7	THZS504150*HSD
900	475	1125	1.5	17	32	42	1.2	37.5	-	180	270	10	8.2	THZS50150*JS
900	475	1125	1.8	22	30	42.5	1.2	37.5	-	180	324	10.5	7.5	THZS504180*JS
900	475	1125	2	22	33.5	42.5	1.2	37.5	-	180	360	11	7	THZS504200*JS
900	475	1125	2	22	33.5	42.5	1.2	37.5	10.2	180	360	12	6.4	THZS504200*JSD
900	475	1125	2.2	22	33.5	42.5	1.2	37.5	-	180	396	11.5	6.5	THZS504220*JS
900	475	1125	2.2	22	33.5	42.5	1.2	37.5	10.2	180	396	12.5	5.9	THZS504220*JSD
900	475	1125	2.5	20	40	41.5	1.2	37.5	-	180	450	14	6	THZS504250*JS
900	475	1125	2.5	20	40	41.5	1.2	37.5	10.2	180	450	15	5.4	THZS504250*JSD
900	475	1125	3	28	37	42.5	1.2	37.5	-	180	540	14	5.2	THZS504300*JS
900	475	1125	3	28	37	42.5	1.2	37.5	10.2	180	540	16	4.6	THZS504300*JSD
900	475	1125	3	24	44	41.5	1.2	37.5	-	180	540	14	5.2	THZS504300*JSA
900	475	1125	3	24	44	41.5	1.2	37.5	-	180	540	17.5	4.6	THZS504300*JSDA
900	475	1125	3.3	24	44	41.5	1.2	37.5	-	180	594	14	5	THZS504330*JS
900	475	1125	3.3	24	44	41.5	1.2	37.5	10.2	180	594	18	4.4	THZS504300*JSD
900	475	1125	4	30	45	42.5	1.2	37.5	-	180	720	14	4.3	THZS04400*JS
900	475	1125	4	30	45	42.5	1.2	37.5	20.3	180	720	20.5	3.7	THZS504400*JSD
900	475	1125	4.7	35	50	42	1.2	37.5	-	180	846	14	3.9	THZS504470*JS
900	475	1125	4.7	35	50	42	1.2	37.5	20.3	180	846	24	3.3	THZS504470*JSD
900	475	1125	5	35	50	42	1.2	37.5	-	180	900	14	3.8	THZS504500*JS
900	475	1125	5	35	50	42	1.2	37.5	20.3	180	900	24.5	3.2	THZS504500*JSD
900	475	1125	5.6	30	45	57.5	1.2	52.5	-	120	672	14	5.1	THZS504560*RS
900	475	1125	5.6	30	45	57.5	1.2	52.5	20.3	120	672	18.5	4.5	THZS504560*RSD
900	475	1125	6	35	50	42	1.2	37.5	-	180	1080	14	3.3	THZS504600*JS
900	475	1125	6	35	50	42	1.2	37.5	20.3	180	1080	27	2.7	THZS504600*JSD
900	475	1125	6.8	30	45	57.5	1.2	52.5	-	120	816	14	4.5	THZS504680*RS
900	475	1125	6.8	30	45	57.5	1.2	52.5	20.3	120	816	20.5	3.9	THZS504680*RSD
900	475	1125	7.5	35	50	57.5	1.2	52.5	-	120	900	14	4.3	THZS504750*RS
900	475	1125	7.5	35	50	57.5	1.2	52.5	20.3	120	900	22	3.7	THZS504750*RSD
900	475	1125	9	35	50	57.5	1.2	52.5	-	120	1080	14	4	THZS504900*RS
900	475	1125	9	35	50	57.5	1.2	52.5	20.3	120	1080	23.5	3.4	THZS504900*RSD
900	475	1125	10	38	57.5	57.5	1.2	52.5	20.3	120	1200	26	3.1	THZS505100*RSD
900	475	1125	12	38	57.5	57.5	1.2	52.5	20.3	120	1440	27	2.7	THZS505120*RSD
900	475	1125	12	38	57.5	57.5	1.2	52.5	10.2	120	1440	29	2.6	THZS505120*RST

⁽¹⁾ Change the * symbol with the needed Cap. tol. code: J=±5%, K=±10%, the # symbol with S for 5mm, L for 25mm lead length and §§ symbols with needed lugs style

⁽²⁾ Max. at 100kHz, +70°C for case operating T= +85°C (at Tamb >+70°C and Tcase>+85°C (voltage and Irms de-rating must be observed), C tol. ≤±10% (for wider C tolerance, ESR variation must be taken in consideration)

⁽³⁾ Typical values at 100kHz (for operating frequencies far from the reference, ESR variation and related power dissipation variation must be taken in consideration)

⁽⁴⁾ Not suitable for across the line application; please refer to de-rated voltages for THB test/usage

^(*) Not available with C tolerance < ±10%



THZ *NEW - In Progress*

- MKP • box with multiple radial terminals
- High reliability • AC Power • Harsh environment



Voltage at +85°C			Cn µF	Dimensions (mm)						du/dt V/µs	Ipeak A	Irms ⁽²⁾ A	ESR ⁽³⁾ mΩ	ICEL CODE ⁽¹⁾
Ur (Vdc)	Urms (Vac) ⁽⁴⁾	Upk (Vdc)		B	H	L	d	P	P1					
1040	550	1300	0.68	18	33	32	1.2	27.5	-	320	217.6	8.5	10.2	THZS553680*HS
1040	550	1300	0.82	18	33	32	1.2	27.5	-	320	262.4	9	9	THZS553820*HS
1040	550	1300	1	22	37	32	1.2	27.5	-	320	320	11.5	7.7	THZS554100*HS
1040	550	1300	1	17	28	42.5	1.2	37.5	-	205	205	8	10.4	THZS554100*JS
1040	550	1300	1.2	22	37	32	1.2	27.5	-	320	384	13	6.3	THZS554120*HS
1040	550	1300	1.2	17	32	42	1.2	37.5	-	205	246	9.5	8.5	THZS554120*JS
1040	550	1300	1.5	22	33.5	42.5	1.2	37.5	-	205	307.5	10.5	7.5	THZS554150*JS
1040	550	1300	1.8	22	33.5	42.5	1.2	37.5	-	205	369	11.5	6.7	THZS554180*JS ^(A)
1040	550	1300	1.8	22	33.5	42.5	1.2	37.5	10.2	205	369	12.5	6.1	THZS554180*JSD ^(A)
1040	550	1300	2	20	40	41.5	1.2	37.5	-	205	410	13.5	6.4	THZS554200*JS
1040	550	1300	2	20	40	41.5	1.2	37.5	10.2	205	410	14.5	5.8	THZS554200*JSD
1040	550	1300	2.2	28	37	42.5	1.2	37.5	-	205	451	13.5	6.1	THZS554220*JS
1040	550	1300	2.2	28	37	42.5	1.2	37.5	10.2	205	451	14.5	5.5	THZS554220*JSD
1040	550	1300	2.5	28	37	42.5	1.2	37.5	-	205	512.5	14	5.7	THZS554250*JS
1040	550	1300	2.5	28	37	42.5	1.2	37.5	10.2	205	512.5	15	5.1	THZS554250*JSD
1040	550	1300	2.5	24	44	41.5	1.2	37.5	-	205	512.5	14	5.4	THZS554250*JSA
1040	550	1300	2.5	24	44	41.5	1.2	37.5	10.2	205	512.5	17.5	4.8	THZS554250*JSDA
1040	550	1300	3	30	45	42.5	1.2	37.5	-	205	615	14	4.8	THZS554300*RS
1040	550	1300	3	30	45	42.5	1.2	37.5	20.3	205	615	19	4.2	THZS554300*RSD
1040	550	1300	3.3	30	45	42.5	1.2	37.5	-	205	676.5	14	4.7	THZS554330*RS
1040	550	1300	3.3	30	45	42.5	1.2	37.5	20.3	205	676.5	19.5	4.1	THZS554330*RSD
1040	550	1300	4	35	50	42	1.2	37.5	-	205	820	14	4.1	THZS554400*JS
1040	550	1300	4	35	50	42	1.2	37.5	20.3	205	820	23	3.5	THZS554400*JSD
1040	550	1300	4.7	35	50	42	1.2	37.5	-	205	963.5	14	3.5	THZS554470*JS
1040	550	1300	4.7	35	50	42	1.2	37.5	20.3	205	963.5	26	2.9	THZS554470*JSD
1040	550	1300	4.7	30	45	57.5	1.2	52.5	-	135	634.5	14	5.1	THZS554470*RS
1040	550	1300	4.7	30	45	57.5	1.2	52.5	20.3	135	634.5	18.5	4.6	THZS554470*RSD
1040	550	1300	5	30	45	57.5	1.2	52.5	-	135	675	14	5	THZS554500*RS
1040	550	1300	5	30	45	57.5	1.2	52.5	20.3	135	675	19	4.4	THZS554500*RSD
1040	550	1300	6	35	50	57.5	1.2	52.5	-	135	810	14	4.4	THZS554600*RS
1040	550	1300	6	35	50	57.5	1.2	52.5	20.3	135	810	21.5	3.8	THZS554600*RSD
1040	550	1300	6.8	35	50	57.5	1.2	52.5	-	135	918	14	4.1	THZS554680*RS
1040	550	1300	6.8	35	50	57.5	1.2	52.5	20.3	135	918	23	3.5	THZS554680*RSD
1040	550	1300	7.5	38	57.5	57.5	1.2	52.5	20.3	135	1012.5	25	3.4	THZS554750*RSD
1040	550	1300	9	38	57.5	57.5	1.2	52.5	20.3	135	1215	27	3.1	THZS554900*RSD

⁽¹⁾ Change the * symbol with the needed Cap. tol. code: J=±5%, K=±10%, the # symbol with S for 5mm, L for 25mm lead length and §§ symbols with needed lugs style

⁽²⁾ Max. at 100kHz, +70°C for case operating T= +85°C (at Tamb >+70°C and Tcase>+85°C (voltage and Irms de-rating must be observed), C tol. ≤±10% (for wider C tolerance, ESR variation must be taken in consideration)

⁽³⁾ Typical values at 100kHz (for operating frequencies far from the reference, ESR variation and related power dissipation variation must be taken in consideration)

⁽⁴⁾ Not suitable for across the line application; please refer to de-rated voltages for THB test/usage

^(A) Not available with C tolerance < ±10%

Warning: this specification must be completed with the data given in the "General technical information" chapter