74HC2G66; 74HCT2G66

Dual single-pole single-throw analog switch

Rev. 11 — 6 November 2018 | Product data sheet

1. General description

The 74HC2G66; 74HCT2G66 is a dual single pole, single-throw analog switch. Each switch has two input/output terminals (nY and nZ) and a digital enable input (nE). When nE is LOW, the analog switch is turned off. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V_{CC}.

2. Features and benefits

- Wide supply voltage range from 2.0 V to 10.0 V for 74HC2G66
- Very low ON resistance:
  - 41 Ω (typ.) at V_{CC} = 4.5 V
  - 30 Ω (typ.) at V_{CC} = 6.0 V
  - 21 Ω (typ.) at V_{CC} = 9.0 V
- High noise immunity
- Low power dissipation
- 25 mA continuous switch current
- Multiple package options
- ESD protection:
  - HBM JESD22-A114F exceeds 2000 V
  - MM JESD22-A115-A exceeds 200 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

3. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74HC2G66DP	-40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	SOT505-2
74HCT2G66DP				
74HC2G66DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1
74HCT2G66DC				
74HC2G66GT	-40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 × 1.95 × 0.5 mm	SOT833-1
74HCT2G66GT				

nexperia

4. Marking

Table 2. Marking codes

Type number	Marking [1]
74HC2G66DP	H66
74HCT2G66DP	T66
74HC2G66DC	H66
74HCT2G66DC	T66
74HC2G66GT	H66
74HCT2G66GT	T66

[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram

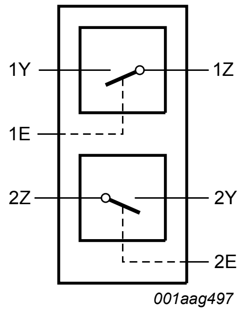


Fig. 1. Logic symbol

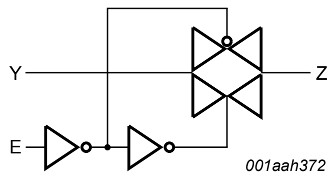


Fig. 2. Logic diagram for 1 switch

6. Pinning information

6.1. Pinning

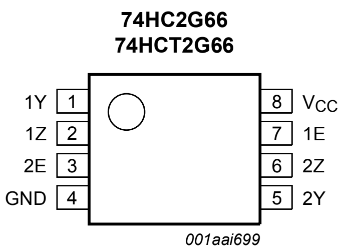


Fig. 3. Pin configuration SOT505-2 (TSSOP8) and SOT765-1 (VSSOP8)

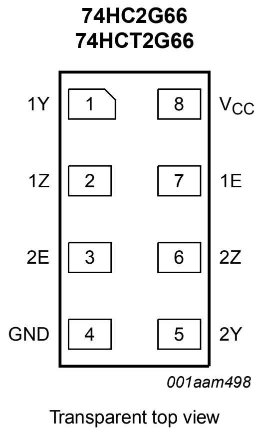


Fig. 4. Pin configuration SOT833-1 (XSON8)

6.2. Pin description

Table 3. Pin description

Symbol	Pin	Description
1Y, 2Y	1, 5	independent input or output
1Z, 2Z	2, 6	independent input or output
GND	4	ground (0 V)
1E, 2E	7, 3	enable input (active HIGH)
V_{CC}	8	supply voltage

7. Functional description

Table 4. Function table

H = HIGH voltage level; L = LOW voltage level.

Input nE	Switch
L	OFF
H	ON

8. Limiting values

Table 5. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134). Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		Min	Max	Unit
V_{CC}	supply voltage			-0.5	+11.0	V
I_{IK}	input clamping current	$V_I < -0.5$ V or $V_I > V_{CC} + 0.5$ V	[1]	-	±20	mA
I_{SK}	switch clamping current	$V_I < -0.5$ V or $V_I > V_{CC} + 0.5$ V	[1]	-	±20	mA
I_{SW}	switch current	$V_{SW} > -0.5$ V or $V_{SW} < V_{CC} + 0.5$ V		-	±20	mA
I_{CC}	supply current			-	30	mA
I_{GND}	ground current			-30	-	mA
T_{stg}	storage temperature			-65	+150	°C
P_{tot}	total power dissipation	T_{amb} = -40 °C to +125 °C				
		per package	[2]	-	300	mW
		per switch	[2]	-	100	mW

[1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

[2] For TSSOP8 packages: above 55 °C the value of P_{tot} derates linearly with 2.5 mW/K.
For VSSOP8 packages: above 110 °C the value of P_{tot} derates linearly with 8.0 mW/K.
For XSON8 packages: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K.

9. Recommended operating conditions

Table 6. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	74HC2G66			74HCT2G66			Unit
			Min	Typ	Max	Min	Typ	Max	
V_{CC}	supply voltage		2.0	5.0	10.0	4.5	5.0	5.5	V
V_I	input voltage		0	-	V_{CC}	0	-	V_{CC}	V
V_O	output voltage		0	-	V_{CC}	0	-	V_{CC}	V
V_{SW}	switch voltage	[1]	0	-	V_{CC}	0	-	V_{CC}	V
T_{amb}	ambient temperature		-40	+25	+125	-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	V_{CC} = 2.0 V	-	-	625	-	-	-	ns/V
		V_{CC} = 4.5 V	-	1.67	139	-	1.67	139	ns/V
		V_{CC} = 6.0 V	-	-	83	-	-	-	ns/V
		V_{CC} = 10.0 V	-	-	35	-	-	-	ns/V

[1] To avoid drawing V_{CC} current out of pin nZ, when switch current flows in pin nY, the voltage drop across the bidirectional switch must not exceed 0.4 V. If the switch current flows into pin nZ, no V_{CC} current will flow out of terminal nY. In this case there is no limit for the voltage drop across the switch, but the voltage at pins nY and nZ may not exceed V_{CC} or GND.

10. Static characteristics

Table 7. Static characteristics

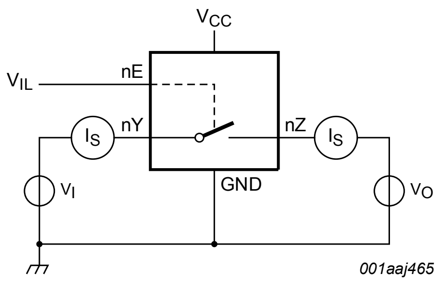
Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min	Max	
74HC2G66								
V_{IH}	HIGH-level input voltage	V_{CC} = 2.0 V	1.5	1.2	-	1.5	-	V
		V_{CC} = 4.5 V	3.15	2.4	-	3.15	-	V
		V_{CC} = 6.0 V	4.2	3.2	-	4.2	-	V
		V_{CC} = 9.0 V	6.3	4.7	-	6.3	-	V
V_{IL}	LOW-level input voltage	V_{CC} = 2.0 V	-	0.8	0.5	-	0.5	V
		V_{CC} = 4.5 V	-	2.1	1.35	-	1.35	V
		V_{CC} = 6.0 V	-	2.8	1.8	-	1.8	V
		V_{CC} = 9.0 V	-	4.3	2.7	-	2.7	V
I_I	input leakage current	nE; V_I = V_{CC} or GND						
		V_{CC} = 6.0 V	-	-	±0.1	-	±0.1	μA
		V_{CC} = 9.0 V	-	-	±0.2	-	±0.2	μA
$I_{S(OFF)}$	OFF-state leakage current	nY or nZ; V_{CC} = 9.0 V; see Fig. 5	-	0.1	1.0	-	1.0	μA
$I_{S(ON)}$	ON-state leakage current	nY or nZ; V_{CC} = 9.0 V; see Fig. 6	-	0.1	1.0	-	1.0	μA
I_{CC}	supply current	nE, nY and nZ = V_{CC} or GND						
		V_{CC} = 6.0 V	-	-	10	-	20	μA
		V_{CC} = 9.0 V	-	-	20	-	40	μA

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min	Max	
C_I	input capacitance		-	3.5	-	-	-	pF
C_{PD}	power dissipation capacitance		-	9	-	-	-	pF
$C_{S(ON)}$	ON-state capacitance		-	8	-	-	-	pF
74HCT2G66								
V_{IH}	HIGH-level input voltage	V_{CC} = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	V
V_{IL}	LOW-level input voltage	V_{CC} = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	V
I_I	input leakage current	nE; V_I = V_{CC} or GND; V_{CC} = 5.5 V	-	-	±1.0	-	±1.0	μA
$I_{S(OFF)}$	OFF-state leakage current	nY or nZ; V_{CC} = 5.5 V; see Fig. 5	-	0.1	1.0	-	1.0	μA
$I_{S(ON)}$	ON-state leakage current	nY or nZ; V_{CC} = 5.5 V; see Fig. 6	-	0.1	1.0	-	1.0	μA
I_{CC}	supply current	nE, nY and nZ = V_{CC} or GND; V_{CC} = 4.5 V to 5.5 V	-	-	10	-	20	μA
ΔI_{CC}	additional supply current	nE = V_{CC} - 2.1 V; I_O = 0 A; V_{CC} = 4.5 V to 5.5 V;	-	-	375	-	410	μA
C_I	input capacitance		-	3.5	-	-	-	pF
C_{PD}	power dissipation capacitance		-	9	-	-	-	pF
$C_{S(ON)}$	ON-state capacitance		-	8	-	-	-	pF

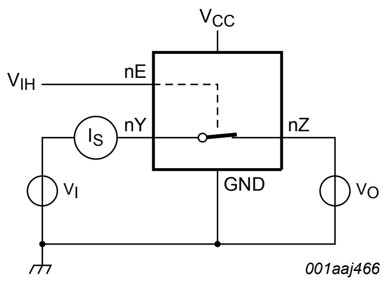
[1] Typical values are measured at T_{amb} = 25 °C.

10.1. Test circuits



V_I = V_{CC} or GND and V_O = GND or V_{CC}.

Fig. 5. Test circuit for measuring OFF-state leakage current



V_I = V_{CC} or GND and V_O = open circuit.

Fig. 6. Test circuit for measuring ON-state leakage current

10.2. ON resistance

Table 8. ON resistance for 74HC2G66 and 74HCT2G66

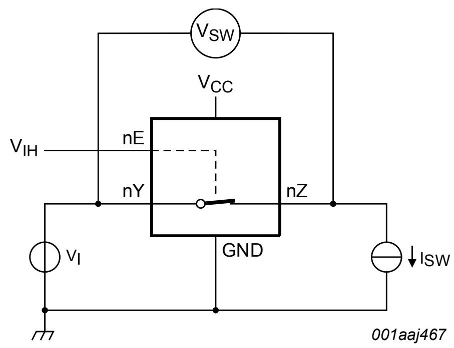
At recommended operating conditions; voltages are referenced to GND (ground 0 V); for graph see Fig. 8.

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min	Max	
74HC2G66 [2]								
$R_{ON(peak)}$	ON resistance (peak)	V_I = GND to V_{CC}; see Fig. 7 and Fig. 8						
		I_{SW} = 0.1 mA; V_{CC} = 2.0 V	-	250	-	-	-	Ω
		I_{SW} = 1.0 mA; V_{CC} = 4.5 V	-	41	118	-	142	Ω
		I_{SW} = 1.0 mA; V_{CC} = 6.0 V	-	30	105	-	126	Ω
		I_{SW} = 1.0 mA; V_{CC} = 9.0 V	-	21	88	-	105	Ω
$R_{ON(rail)}$	ON resistance (rail)	V_I = GND; see Fig. 7 and Fig. 8						
		I_{SW} = 0.1 mA; V_{CC} = 2.0 V	-	65	-	-	-	Ω
		I_{SW} = 1.0 mA; V_{CC} = 4.5 V	-	28	95	-	115	Ω
		I_{SW} = 1.0 mA; V_{CC} = 6.0 V	-	22	82	-	100	Ω
		I_{SW} = 1.0 mA; V_{CC} = 9.0 V	-	18	70	-	80	Ω
		V_I = V_{CC}; see Fig. 7 and Fig. 8						
		I_{SW} = 0.1 mA; V_{CC} = 2.0 V	-	65	-	-	-	Ω
		I_{SW} = 1.0 mA; V_{CC} = 4.5 V	-	31	106	-	128	Ω
		I_{SW} = 1.0 mA; V_{CC} = 6.0 V	-	23	94	-	113	Ω
		I_{SW} = 1.0 mA; V_{CC} = 9.0 V	-	19	78	-	95	Ω
ΔR_{ON}	ON resistance mismatch between channels	V_I = V_{CC} to GND; see Fig. 7 and Fig. 8						
		V_{CC} = 4.5 V	-	5	-	-	-	Ω
		V_{CC} = 6.0 V	-	4	-	-	-	Ω
		V_{CC} = 9.0 V	-	3	-	-	-	Ω
74HCT2G66								
$R_{ON(peak)}$	ON resistance (peak)	V_I = GND to V_{CC}; see Fig. 7 and Fig. 8						
		I_{SW} = 1.0 mA; V_{CC} = 4.5 V	-	41	118	-	142	Ω
$R_{ON(rail)}$	ON resistance (rail)	V_I = GND; see Fig. 7 and Fig. 8						
		I_{SW} = 1.0 mA; V_{CC} = 4.5 V	-	28	95	-	115	Ω
		V_I = V_{CC}; see Fig. 7 and Fig. 8						
		I_{SW} = 1.0 mA; V_{CC} = 4.5 V	-	31	106	-	128	Ω
ΔR_{ON}	ON resistance mismatch between channels	V_I = V_{CC} to GND; see Fig. 7 and Fig. 8						
		V_{CC} = 4.5 V	-	5	-	-	-	Ω

[1] Typical values are measured at T_{amb} = 25 °C.

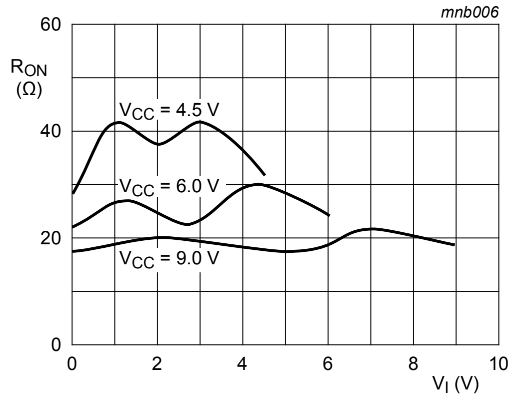
[2] At supply voltages approaching 2 V, the ON resistance becomes extremely non-linear. Therefore it is recommended that these devices be used to transmit digital signals only, when using this supply voltage.

10.3. ON resistance test circuit and graphs



$R_{ON} = V_{SW} / I_{SW}$.

Fig. 7. Test circuit for measuring ON resistance



$T_{amb} = 25\ °C$.

Fig. 8. Typical ON resistance as a function of input voltage

11. Dynamic characteristics

Table 9. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); For test circuit see Fig. 11.

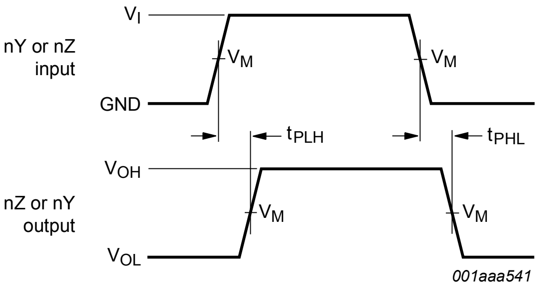
Symbol	Parameter	Conditions		-40 °C to +85 °C			-40 °C to +125 °C		Unit
				Min	Typ [1]	Max	Min	Max	
74HC2G66									
t_{pd}	propagation delay	nY to nZ or nZ to nY; $R_L = \infty\ \Omega$; see Fig. 9	[2]						
		V_{CC} = 2.0 V		-	6.5	65	-	80	ns
		V_{CC} = 4.5 V		-	2	13	-	15	ns
		V_{CC} = 6.0 V		-	1.5	11	-	14	ns
		V_{CC} = 9.0 V		-	1.2	10	-	12	ns
t_{en}	enable time	nE to nY or nZ; see Fig. 10	[2]						
		V_{CC} = 2.0 V		-	40	125	-	150	ns
		V_{CC} = 4.5 V		-	12	29	-	30	ns
		V_{CC} = 6.0 V		-	10	21	-	26	ns
		V_{CC} = 9.0 V		-	7	16	-	20	ns
t_{dis}	disable time	nE to nY or nZ; see Fig. 10	[2]						
		V_{CC} = 2.0 V		-	21	145	-	175	ns
		V_{CC} = 4.5 V		-	12	29	-	35	ns
		V_{CC} = 6.0 V		-	11	28	-	33	ns
		V_{CC} = 9.0 V		-	10	23	-	27	ns
C_{PD}	power dissipation capacitance	V_I = GND to V_{CC}	[3]	-	9	-	-	-	pF
74HCT2G66									
t_{pd}	propagation delay	nY to nZ or nZ to nY; $R_L = \infty\ \Omega$; V_{CC} = 4.5 V; see Fig. 9	[2]	-	2	15	-	18	ns
t_{en}	enable time	nE to nY or nZ; V_{CC} = 4.5; see Fig. 10	[2]	-	13	30	-	36	ns
t_{dis}	disable time	nE to nY or nZ; V_{CC} = 4.5 V; see Fig. 10	[2]	-	13	44	-	53	ns
C_{PD}	power dissipation capacitance	V_I = GND to V_{CC} - 1.5 V	[3]	-	9	-	-	-	pF

[1] All typical values are measured at T_{amb} = 25 °C.

[2] t_{pd} is the same as t_{PLH} and t_{PHL}.
t_{en} is the same as t_{PZL} and t_{PZH}.
t_{dis} is the same as t_{PLZ} and t_{PHZ}.

[3] C_{PD} is used to determine the dynamic power dissipation P_D (μW).
$P_D = C_{PD} \times V_{CC}^2 \times f_i + \Sigma((C_L \times C_{SW}) \times V_{CC}^2 \times f_o)$ where:
f_i = input frequency in MHz;
f_o = output frequency in MHz;
C_L = output load capacitance in pF;
C_{SW} = maximum switch capacitance in pF (see Table 7);
V_{CC} = supply voltage in volts;
$\Sigma((C_L \times C_{SW}) \times V_{CC}^2 \times f_o)$ = sum of outputs.

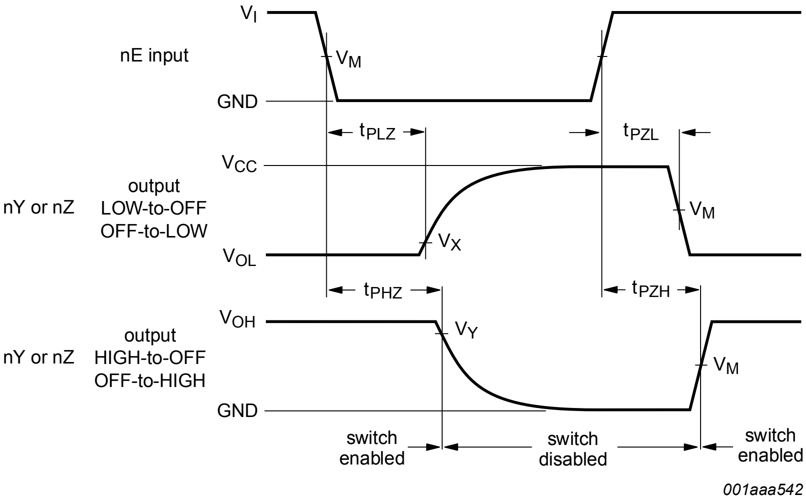
11.1. Waveforms and test circuit



Measurement points are given in Table 10.

Logic levels: V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Fig. 9. Input (nY or nZ) to output (nZ or nY) propagation delays



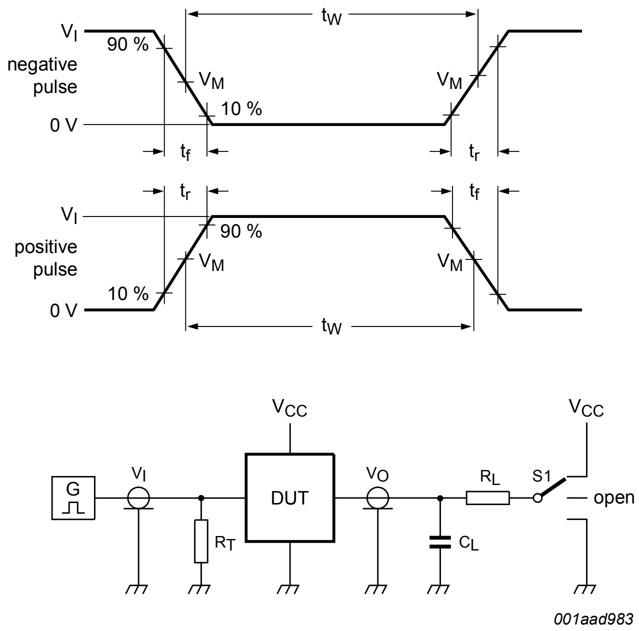
Measurement points are given in Table 10.

Logic levels: V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Fig. 10. Enable and disable times

Table 10. Measurement points

Type	Input	Output		
	V_M	V_M	V_X	V_Y
74HC2G66	$0.5V_{CC}$	$0.5V_{CC}$	V_{OL} + 10 %	V_{OH} - 10 %
74HCT2G66	1.3 V	1.3 V	V_{OL} + 10 %	V_{OH} - 10 %



Test data is given in Table 11.

Definitions for test circuit:

R_T = Termination resistance should be equal to output impedance Z_o of the pulse generator.

C_L = Load capacitance including jig and probe capacitance.

R_L = Load resistance.

S1 = Test selection switch.

Fig. 11. Test circuit for measuring switching times

Table 11. Test data

Type	Input		Load		S1 position		
	V_I	t_r, t_f [1]	C_L	R_L	t_{PHL}, t_{PLH}	t_{PZH}, t_{PHZ}	t_{PZL}, t_{PLZ}
74HC2G66	GND to V_{CC}	6 ns	50 pF	1 kΩ	open	GND	V_{CC}
74HCT2G66	GND to 3 V	6 ns	50 pF	1 kΩ	open	GND	V_{CC}

[1] There is no constraint on t_r, t_f with a 50 % duty factor when measuring f_{max}.

11.2. Additional dynamic characteristics

Table 12. Additional dynamic characteristics for 74HC2G66 and 74HCT2G66

GND = 0 V; t_r = t_f = 6.0 ns; C_L = 50 pF; unless otherwise specified. All typical values are measured at T_{amb} = 25 °C.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
THD	total harmonic distortion	f_i = 1 kHz; R_L = 10 kΩ; see Fig. 12				
		V_{CC} = 4.5 V; V_I = 4.0 V (p-p)	-	0.04	-	%
		V_{CC} = 9.0 V; V_I = 8.0 V (p-p)	-	0.02	-	%
		f_i = 10 kHz; R_L = 10 kΩ; see Fig. 12				
		V_{CC} = 4.5 V; V_I = 4.0 V (p-p)	-	0.12	-	%
		V_{CC} = 9.0 V; V_I = 8.0 V (p-p)	-	0.06	-	%
$f_{(-3dB)}$	-3 dB frequency response	R_L = 50 Ω; C_L = 10 pF; see Fig. 13 and Fig. 14				
		V_{CC} = 4.5 V	-	180	-	MHz
		V_{CC} = 9.0 V	-	200	-	MHz
α_{iso}	isolation (OFF-state)	R_L = 600 Ω; f_i = 1 MHz; see Fig. 15 and Fig. 16				
		V_{CC} = 4.5 V	-	-50	-	dB
		V_{CC} = 9.0 V	-	-50	-	dB
V_{ct}	crosstalk voltage	between digital input and switch (peak to peak value); R_L = 600 Ω; f_i = 1 MHz; see Fig. 17				
		V_{CC} = 4.5 V	-	110	-	mV
		V_{CC} = 9.0 V	-	220	-	mV
Xtalk	crosstalk	between switches; R_L = 600 Ω; f_i = 1 MHz; see Fig. 18				
		V_{CC} = 4.5 V	-	-60	-	dB
		V_{CC} = 9.0 V	-	-60	-	dB

11.3. Test circuits and graphs

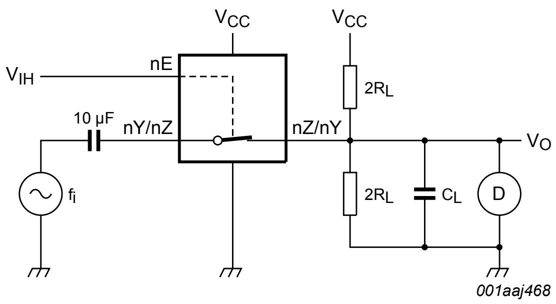
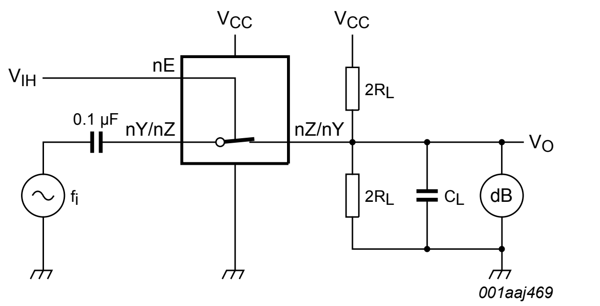
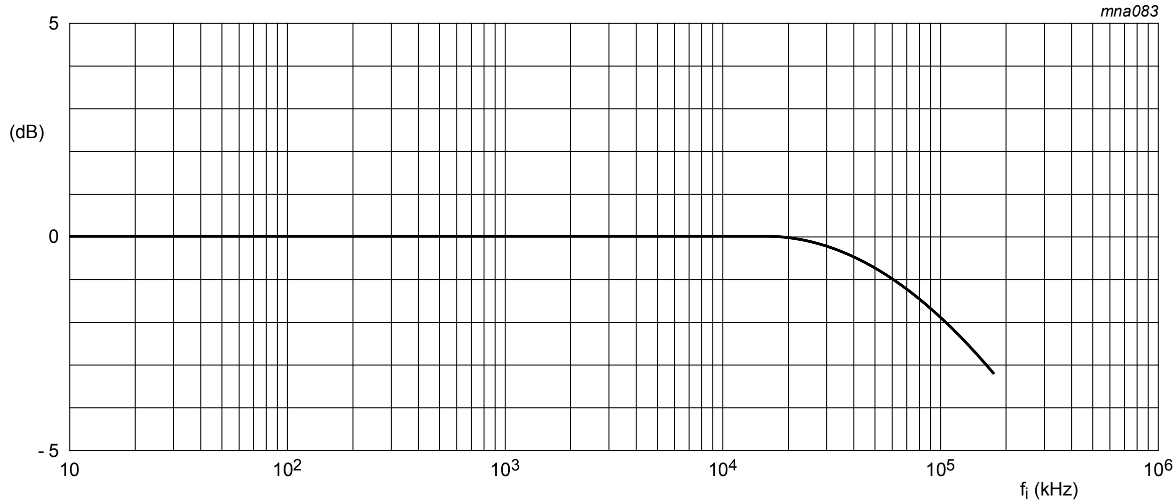


Fig. 12. Test circuit for measuring total harmonic distortion



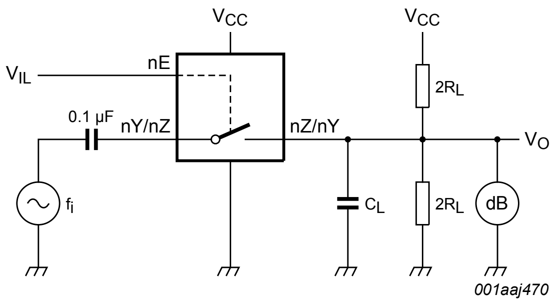
With f_i = 1 MHz adjust the switch input voltage for a 0 dBm level at the switch output, (0 dBm = 1 mW into 50 Ω). Then Increase the input frequency until the dB meter reads -3 dB.

Fig. 13. Test circuit for measuring the -3 dB frequency response



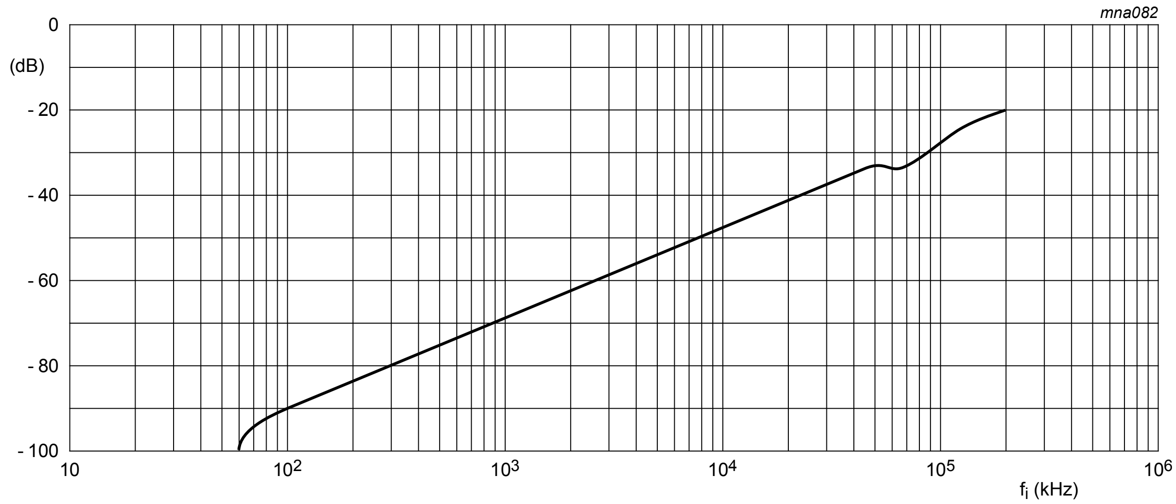
Test conditions: V_{CC} = 4.5 V; GND = 0 V; R_L = 50 Ω; R_{SOURCE} = 1 kΩ.

Fig. 14. Typical -3 dB frequency response



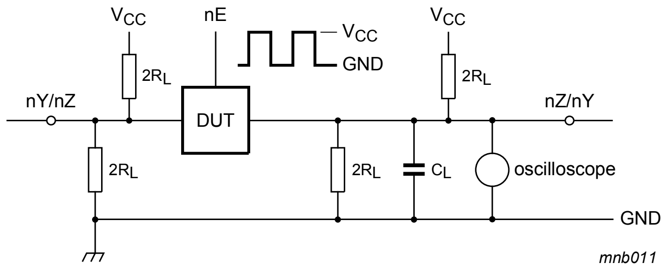
Adjust the switch input voltage for a 0 dBm level (0 dBm = 1 mW into 600 Ω)

Fig. 15. Test circuit for measuring isolation (OFF-state)

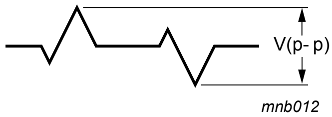


Test conditions: V_{CC} = 4.5 V; GND = 0 V; R_L = 50 Ω; R_{SOURCE} = 1 kΩ.

Fig. 16. Typical isolation (OFF-state) as a function of frequency



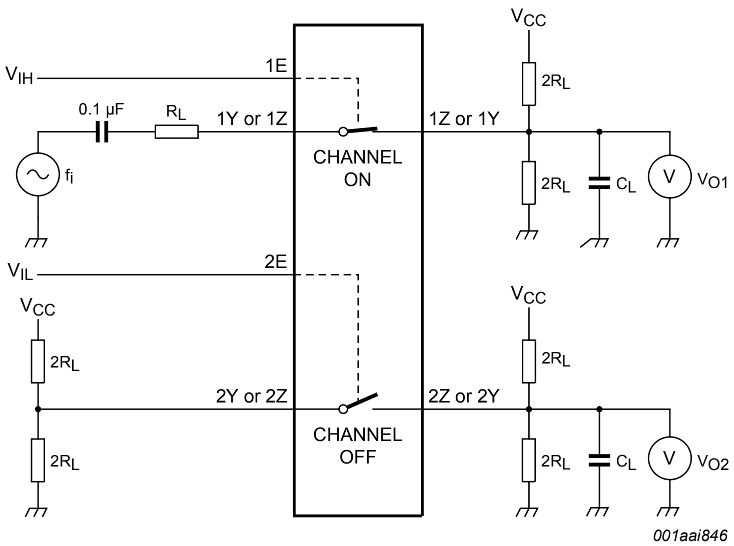
a. Circuit



b. Crosstalk voltage

Adjust the switch input voltage for a 0 dBm level (0 dBm = 1 mW into 600 Ω)

Fig. 17. Test circuit for measuring crosstalk voltage (between the digital input and the switch)

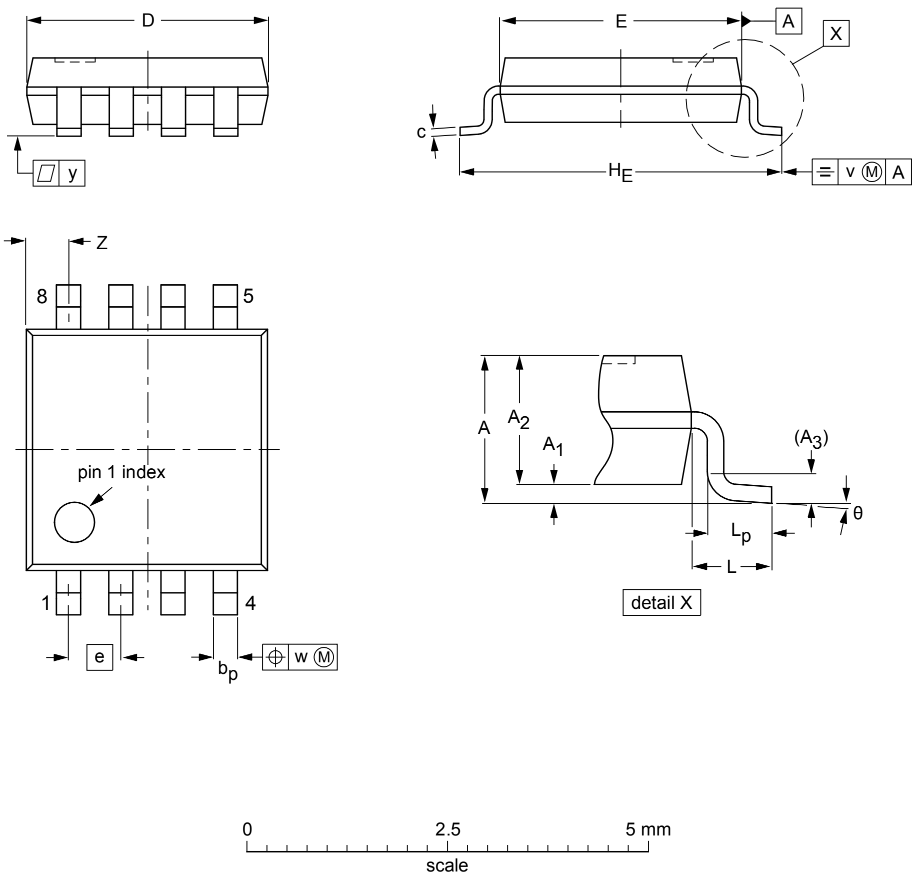


Adjust the switch input voltage for a 0 dBm level (0 dBm = 1 mW into 600 Ω)

Fig. 18. Test circuit for measuring crosstalk (between the switches)

12. Package outline

TSSOP8: plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm SOT505-2



DIMENSIONS (mm are the original dimensions)

UNIT	A max.	A_1	A_2	A_3	b_p	c	$D^{(1)}$	$E^{(1)}$	e	H_E	L	L_p	v	w	y	$Z^{(1)}$	θ
mm	1.1	0.15 0.00	0.95 0.75	0.25	0.38 0.22	0.18 0.08	3.1 2.9	3.1 2.9	0.65	4.1 3.9	0.5	0.47 0.33	0.2	0.13	0.1	0.70 0.35	8° 0°

Note

1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.

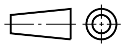
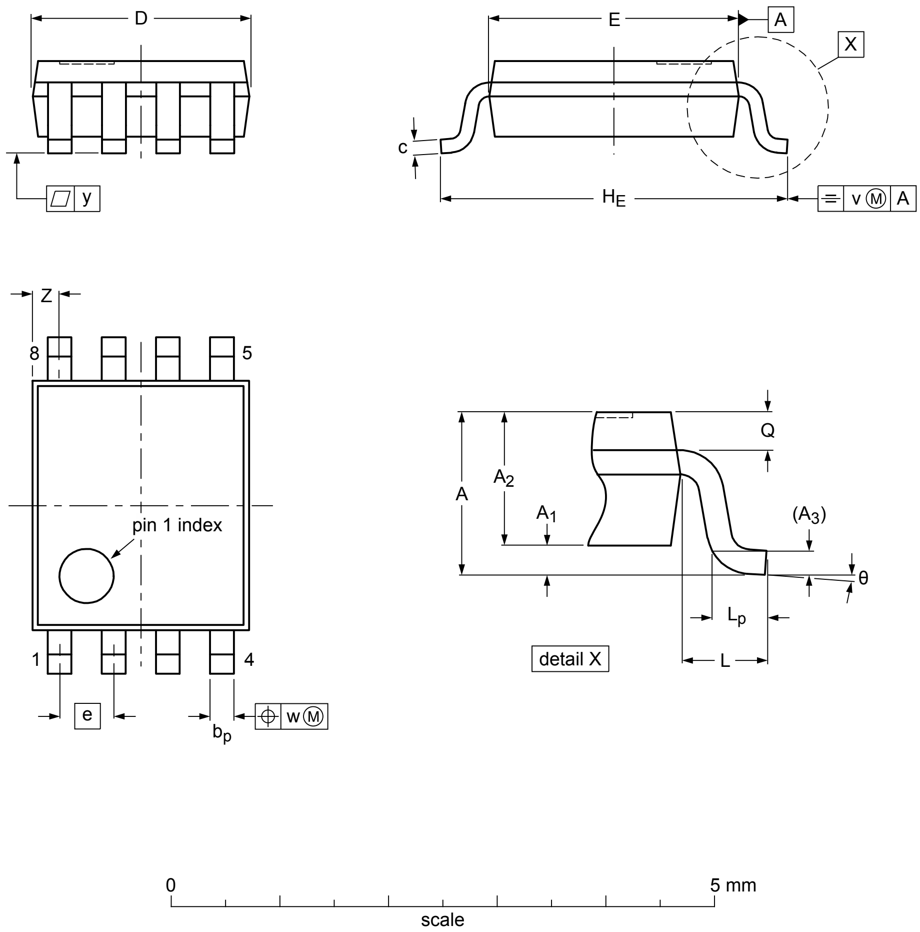
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT505-2		- - -				02-01-16

Fig. 19. Package outline SOT505-2 (TSSOP8)

VSSOP8: plastic very thin shrink small outline package; 8 leads; body width 2.3 mm **SOT765-1**



Dimensions (mm are the original dimensions)

Unit		A max.	A_1	A_2	A_3	b_p	c	$D^{(1)}$	$E^{(2)}$	e	H_E	L	L_p	Q	v	w	y	$Z^{(1)}$	θ
mm	max		0.15	0.85		0.27	0.23	2.1	2.4		3.2		0.40	0.21				0.4	8°
	nom	1			0.12					0.5		0.4			0.2	0.08	0.1		
	min		0.00	0.60		0.17	0.08	1.9	2.2		3.0		0.15	0.19				0.1	0°

Note

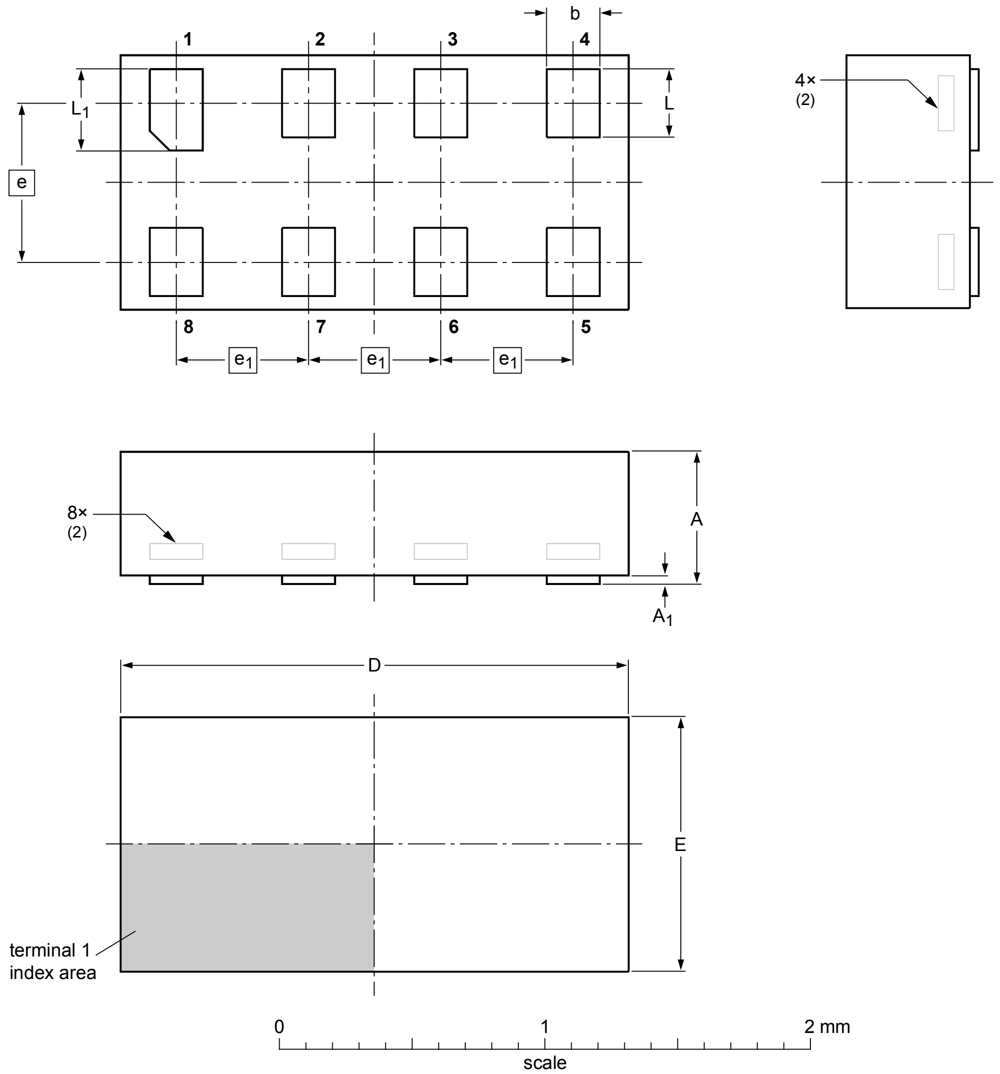
1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
2. Plastic or metal protrusions of 0.25 mm maximum per side are not included.

sot765-1_po

Outline version	References				European projection	Issue date
	IEC	JEDEC	JEITA			
SOT765-1		MO-187				~~07-06-02~~ 16-05-31

Fig. 20. Package outline SOT765-1 (VSSOP8)

XSON8: plastic extremely thin small outline package; no leads; 8 terminals; body 1 x 1.95 x 0.5 mm **SOT833-1**



DIMENSIONS (mm are the original dimensions)

UNIT	$A^{(1)}$ max	A_1 max	b	D	E	e	e_1	L	L_1
mm	0.5	0.04	0.25 0.17	2.0 1.9	1.05 0.95	0.6	0.5	0.35 0.27	0.40 0.32

Notes

1. Including plating thickness.
2. Can be visible in some manufacturing processes.

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT833-1	- - -	MO-252	- - -			~~07-11-14~~ 07-12-07

Fig. 21. Package outline SOT833-1 (XSON8)

13. Abbreviations

Table 13. Abbreviations

Acronym	Description
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
MM	Machine Model

14. Revision history

Table 14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT2G66 v.11	20181106	Product data sheet	-	74HC_HCT2G66 v.10
Modifications:	• The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. • Legal texts have been adapted to the new company name where appropriate. • Type numbers 74HC2G66GD and 74HCT2G66GD (SOT996-2) removed. • Corrected Fig. 2 • Package outline drawing SOT765-1 updated			
74HC_HCT2G66 v.10	20131003	Product data sheet	-	74HC_HCT2G66 v.9
Modifications:	• For type numbers 74HC2G66GD and 74HCT2G66GD XSON8U has changed to XSON8.			
74HC_HCT2G66 v.9	20111213	Product data sheet	-	74HC_HCT2G66 v.8
74HC_HCT2G66 v.8	20100923	Product data sheet	-	74HC_HCT2G66 v.7
74HC_HCT2G66 v.7	20100914	Product data sheet	-	74HC_HCT2G66 v.6
74HC_HCT2G66 v.6	20100402	Product data sheet	-	74HC_HCT2G66 v.5
74HC_HCT2G66 v.5	20090126	Product data sheet	-	74HC_HCT2G66 v.4
74HC_HCT2G66 v.4	20040519	Product specification	-	74HC_HCT2G66 v.3
74HC_HCT2G66 v.3	20031126	Product specification	-	74HC_HCT2G66 v.2
74HC_HCT2G66 v.2	20030808	Product specification	-	74HC_HCT2G66 v.1
74HC_HCT2G66 v.1	20030625	Product specification	-	-

15. Legal information

Data sheet status

Document status [1][2]	Product status [3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

[1] Please consult the most recently issued document before initiating or completing a design.
[2] The term 'short data sheet' is explained in section "Definitions".
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