# 74HC2G66-Q100; 74HCT2G66-Q100

Dual single-pole single-throw analog switch Rev. 2 — 6 November 2018

Product data sheet

### 1. General description

The 74HC2G66-Q100; 74HCT2G66-Q100 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 that enable the use of current limiting resistors to interface inputs to voltages in excess of  $V_{\rm CC}$ .

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

### 2. Features and benefits

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
  - Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- Wide supply voltage range from 2.0 V to 10.0 V for 74HC2G66-Q100
- · Very low ON resistance:
  - 41 Ω (typ.) at V<sub>CC</sub> = 4.5 V
  - 30 Ω (typ.) at V<sub>CC</sub> = 6.0 V
  - 21  $\Omega$  (typ.) at  $V_{CC} = 9.0 \text{ V}$
- · High noise immunity
- · Low power dissipation
- · 25 mA continuous switch current
- · Multiple package options
- ESD protection:
  - MIL-STD-883, method 3015 exceeds 2000 V
  - HBM JESD22-A114F exceeds 2000 V
  - MM JESD22-A115-A exceeds 200 V (C = 200 pF, R = 0 Ω)

# 3. Ordering information

### **Table 1. Ordering information**

Type number	Package							
	Temperature range	Name	Description	Version				
74HC2G66DP-Q100	-40 °C to +125 °C	TSSOP8	p					
74HCT2G66DP-Q100			8 leads; body width 3 mm; lead length 0.5 mm					
74HC2G66DC-Q100	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package;	SOT765-1				
74HCT2G66DC-Q100			8 leads; body width 2.3 mm					



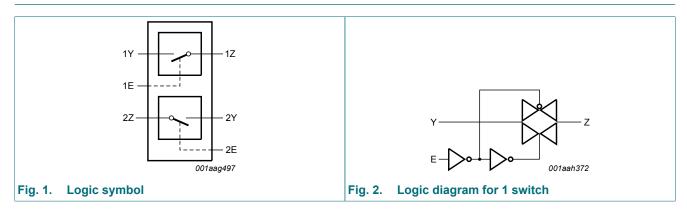
## 4. Marking

### Table 2. Marking codes

Type number	Marking [1]
74HC2G66DP-Q100	H66
74HCT2G66DP-Q100	Т66
74HC2G66DC-Q100	H66
74HCT2G66DC-Q100	T66

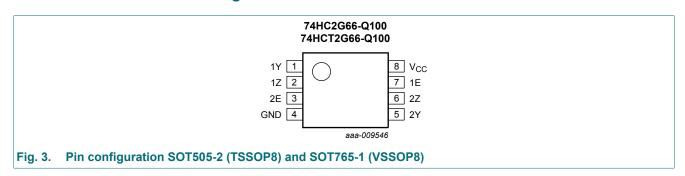
<sup>[1]</sup> The pin 1 indicator is located on the lower left corner of the device, below the marking code.

# 5. Functional diagram



# 6. Pinning information

### 6.1. Pinning



### 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 <sub>CC</sub>	8	supply voltage

### 7. Functional description

#### **Table 4. Function table**

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

Input nE	Switch
L	OFF
Н	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 <sub>CC</sub>	supply voltage			-0.5	+11.0	V
I <sub>IK</sub>	input clamping current	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$	[1]	-	±20	mA
I <sub>SK</sub>	switch clamping current	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$	[1]	-	±20	mA
I <sub>SW</sub>	switch current	$V_{SW}$ > -0.5 V or $V_{SW}$ < $V_{CC}$ + 0.5 V		-	±20	mA
I <sub>CC</sub>	supply current			-	30	mA
$I_{GND}$	ground current			-30	-	mA
T <sub>stg</sub>	storage temperature			-65	+150	°C
P <sub>tot</sub>	total power dissipation	T <sub>amb</sub> = -40 °C to +125 °C				
		per package	[2]	-	300	mW
		per switch	[2]	-	100	mW

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

# 9. Recommended operating conditions

#### Table 6. Recommended operating conditions

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

Symbol	Parameter	Conditions	74H	C2G66-0	2100	74H0	CT2G66-	Q100	Unit
			Min	Тур	Max	Min	Тур	Max	
$V_{CC}$	supply voltage		2.0	5.0	10.0	4.5	5.0	5.5	V
VI	input voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V
V <sub>O</sub>	output voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V
$V_{SW}$	switch voltage	[1]	0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 2.0 V	-	-	625	-	-	-	ns/V
		V <sub>CC</sub> = 4.5 V	-	1.67	139	-	1.67	139	ns/V
		V <sub>CC</sub> = 6.0 V	-	-	83	-	-	-	ns/V
		V <sub>CC</sub> = 10.0 V	-	-	35	-	-	-	ns/V

<sup>[1]</sup> To avoid drawing V<sub>CC</sub> 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<sub>CC</sub> 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<sub>CC</sub> or GND.

<sup>[2]</sup> For TSSOP8 packages: above 55 °C the value of P<sub>tot</sub> derates linearly with 2.5 mW/K. For VSSOP8 packages: above 110 °C the value of P<sub>tot</sub> derates linearly with 8.0 mW/K.

## 10. Static characteristics

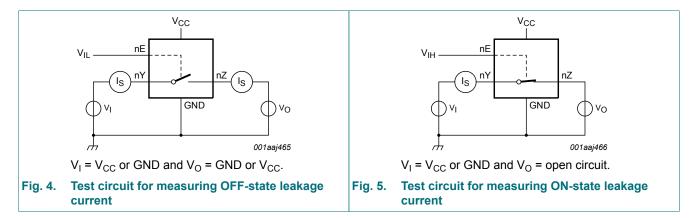
**Table 7. Static characteristics** 

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

Symbol	Parameter	Conditions	-40	°C to +8	5°C	-40 °C to	+125 °C	Unit
			Min	Typ [1]	Max	Min	Max	
74HC2G	66-Q100							
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 2.0 V	1.5	1.2	-	1.5	-	V
		V <sub>CC</sub> = 4.5 V	3.15	2.4	-	3.15	-	V
		V <sub>CC</sub> = 6.0 V	4.2	3.2	-	4.2	-	V
		V <sub>CC</sub> = 9.0 V	6.3	4.7	-	6.3	-	V
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 2.0 V	-	0.8	0.5	-	0.5	V
		V <sub>CC</sub> = 4.5 V	-	2.1	1.35	-	1.35	V
		V <sub>CC</sub> = 6.0 V	-	2.8	1.8	-	1.8	V
		V <sub>CC</sub> = 9.0 V	-	4.3	2.7	-	2.7	V
l <sub>l</sub>	input leakage current	nE; V <sub>I</sub> = V <sub>CC</sub> or GND						
		V <sub>CC</sub> = 6.0 V	-	-	±0.1	-	±0.1	μΑ
		V <sub>CC</sub> = 9.0 V	-	-	±0.2	-	±0.2	μΑ
I <sub>S(OFF)</sub>	OFF-state leakage current	nY or nZ; V <sub>CC</sub> = 9.0 V; see Fig. 4	-	0.1	1.0	-	1.0	μΑ
I <sub>S(ON)</sub>	ON-state leakage current	nY or nZ; V <sub>CC</sub> = 9.0 V; see <u>Fig. 5</u>	-	0.1	1.0	-	1.0	μΑ
I <sub>CC</sub>	supply current	nE, nY and nZ = V <sub>CC</sub> or GND						
		V <sub>CC</sub> = 6.0 V	-	-	10	-	20	μΑ
		V <sub>CC</sub> = 9.0 V	-	-	20	-	40	μA
Cı	input capacitance		-	3.5	-	-	-	pF
$C_{PD}$	power dissipation capacitance		-	9	-	-	-	pF
C <sub>S(ON)</sub>	ON-state capacitance		-	8	-	-	-	pF
<b>74HCT2</b>	G66-Q100							
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	V
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	V
l <sub>l</sub>	input leakage current	nE; $V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±1.0	-	±1.0	μΑ
I <sub>S(OFF)</sub>	OFF-state leakage current	nY or nZ; V <sub>CC</sub> = 5.5 V; see Fig. 4	-	0.1	1.0	-	1.0	μA
I <sub>S(ON)</sub>	ON-state leakage current	nY or nZ; V <sub>CC</sub> = 5.5 V; see <u>Fig. 5</u>	-	0.1	1.0	-	1.0	μA
I <sub>CC</sub>	supply current	nE, nY and nZ = $V_{CC}$ or GND; $V_{CC}$ = 4.5 V to 5.5 V	-	-	10	-	20	μΑ
ΔI <sub>CC</sub>	additional supply current	nE = $V_{CC}$ - 2.1 V; $I_{O}$ = 0 A; $V_{CC}$ = 4.5 V to 5.5 V;	-	-	375	-	410	μΑ
Cı	input capacitance		-	3.5	-	-	-	pF
C <sub>PD</sub>	power dissipation capacitance		-	9	-	-	-	pF
C <sub>S(ON)</sub>	ON-state capacitance		-	8	-	-	-	pF

<sup>[1]</sup> Typical values are measured at  $T_{amb}$  = 25 °C.

#### 10.1. Test circuits



#### 10.2. ON resistance

Table 8. ON resistance for 74HC2G66-Q100 and 74HCT2G66-Q100

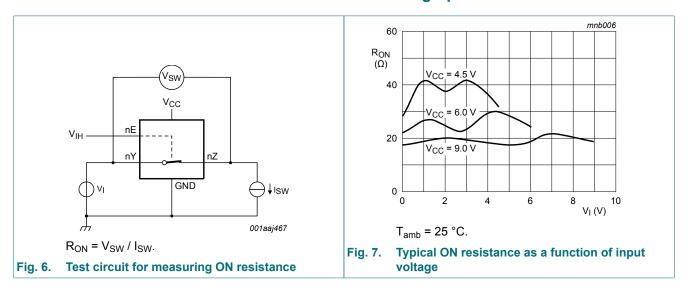
At recommended operating conditions; voltages are referenced to GND (ground 0 V); for graph see Fig. 7.

Symbol	Parameter	Conditions	-40	°C to +85	5°C	-40 °C to	o +125 °C	Unit
			Min	Typ [1]	Max	Min	Max	
74HC2G6	66-Q100 [2]							
R <sub>ON(peak)</sub>		$V_I$ = GND to $V_{CC}$ ; see <u>Fig. 6</u> and <u>Fig. 7</u>						
	(peak)	I <sub>SW</sub> = 0.1 mA; V <sub>CC</sub> = 2.0 V	-	250	-	-	-	Ω
		I <sub>SW</sub> = 1.0 mA; V <sub>CC</sub> = 4.5 V	-	41	118	-	142	Ω
		I <sub>SW</sub> = 1.0 mA; V <sub>CC</sub> = 6.0 V	-	30	105	-	126	Ω
		I <sub>SW</sub> = 1.0 mA; V <sub>CC</sub> = 9.0 V	-	21	88	-	105	Ω
R <sub>ON(rail)</sub>	ON resistance (rail)	V <sub>I</sub> = GND; see <u>Fig. 6</u> and <u>Fig. 7</u>						
		I <sub>SW</sub> = 0.1 mA; V <sub>CC</sub> = 2.0 V	-	65	-	-	-	Ω
		I <sub>SW</sub> = 1.0 mA; V <sub>CC</sub> = 4.5 V	-	28	95	-	115	Ω
		I <sub>SW</sub> = 1.0 mA; V <sub>CC</sub> = 6.0 V	-	22	82	-	100	Ω
		I <sub>SW</sub> = 1.0 mA; V <sub>CC</sub> = 9.0 V	-	18	70	-	80	Ω
		V <sub>I</sub> = V <sub>CC</sub> ; see <u>Fig. 6</u> and <u>Fig. 7</u>						
		I <sub>SW</sub> = 0.1 mA; V <sub>CC</sub> = 2.0 V	-	65	-	-	-	Ω
		I <sub>SW</sub> = 1.0 mA; V <sub>CC</sub> = 4.5 V	-	31	106	-	128	Ω
		I <sub>SW</sub> = 1.0 mA; V <sub>CC</sub> = 6.0 V	-	23	94	-	113	Ω
		I <sub>SW</sub> = 1.0 mA; V <sub>CC</sub> = 9.0 V	-	19	78	-	95	Ω
$\Delta R_{ON}$	ON resistance	$V_I = V_{CC}$ to GND; see <u>Fig. 6</u> and <u>Fig. 7</u>						
	mismatch between channels	V <sub>CC</sub> = 4.5 V	-	5	-	-	-	Ω
	DOM/CON GRAINCIS	V <sub>CC</sub> = 6.0 V	-	4	-	-	-	Ω
		V <sub>CC</sub> = 9.0 V	-	3	-	-	-	Ω

Symbol	Parameter	Conditions	-40	°C to +85	5°C	-40 °C to	+125 °C	Unit
			Min	Typ [1]	Max	Min	Max	
74HCT2G	666-Q100							
Ort(peak)		$V_I$ = GND to $V_{CC}$ ; see <u>Fig. 6</u> and <u>Fig. 7</u>						
	(peak)	I <sub>SW</sub> = 1.0 mA; V <sub>CC</sub> = 4.5 V	-	41	118	-	142	Ω
R <sub>ON(rail)</sub>	ON resistance (rail)	V <sub>I</sub> = GND; see <u>Fig. 6</u> and <u>Fig. 7</u>						
		I <sub>SW</sub> = 1.0 mA; V <sub>CC</sub> = 4.5 V	-	28	95	-	115	Ω
		V <sub>I</sub> = V <sub>CC</sub> ; see <u>Fig. 6</u> and <u>Fig. 7</u>						
		I <sub>SW</sub> = 1.0 mA; V <sub>CC</sub> = 4.5 V	-	31	106	-	128	Ω
ΔR <sub>ON</sub>	ON resistance	V <sub>I</sub> = V <sub>CC</sub> to GND; see <u>Fig. 6</u> and <u>Fig. 7</u>						
	mismatch between channels	V <sub>CC</sub> = 4.5 V	-	5	=	-	-	Ω

<sup>[1]</sup> Typical values are measured at T<sub>amb</sub> = 25 °C.

### 10.3. ON resistance test circuit and graphs



<sup>[2]</sup> 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.

# 11. Dynamic characteristics

#### **Table 9. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V); For test circuit see Fig. 10.

Symbol	Parameter	Conditions		-40	°C to +85	°C	-40 °C t	o +125 °C	Unit
				Min	Typ [1]	Max	Min	Max	
74HC2G	66-Q100				1				
t <sub>pd</sub>	propagation delay	nY to nZ or nZ to nY; $R_L = \infty \Omega$ ; see Fig. 8	[2]						
		V <sub>CC</sub> = 2.0 V		-	6.5	65	-	80	ns
		V <sub>CC</sub> = 4.5 V		-	2	13	-	15	ns
		V <sub>CC</sub> = 6.0 V		-	1.5	11	-	14	ns
		V <sub>CC</sub> = 9.0 V		-	1.2	10	-	12	ns
t <sub>en</sub>	enable time	nE to nY or nZ; see Fig. 9	[2]						
		V <sub>CC</sub> = 2.0 V		-	40	125	-	150	ns
		V <sub>CC</sub> = 4.5 V		-	12	29	-	30	ns
		V <sub>CC</sub> = 6.0 V		-	10	21	-	26	ns
		V <sub>CC</sub> = 9.0 V		-	7	16	-	20	ns
t <sub>dis</sub>	disable time	nE to nY or nZ; see Fig. 9	[2]						
		V <sub>CC</sub> = 2.0 V		-	21	145	-	175	ns
		V <sub>CC</sub> = 4.5 V		-	12	29	-	35	ns
		V <sub>CC</sub> = 6.0 V		-	11	28	-	33	ns
		V <sub>CC</sub> = 9.0 V		-	10	23	-	27	ns
C <sub>PD</sub>	power dissipation capacitance	$V_I = GND$ to $V_{CC}$	[3]	-	9	-	-	-	pF
74HCT2	G66-Q100						1		
t <sub>pd</sub>	propagation delay	nY to nZ or nZ to nY; R <sub>L</sub> = $\infty$ Ω; V <sub>CC</sub> = 4.5 V; see Fig. 8	[2]	-	2	15	-	18	ns
t <sub>en</sub>	enable time	nE to nY or nZ; V <sub>CC</sub> = 4.5; see Fig. 9	[2]	-	13	30	-	36	ns
t <sub>dis</sub>	disable time	nE to nY or nZ; $V_{CC}$ = 4.5 V; see Fig. 9	[2]	-	13	44	-	53	ns
C <sub>PD</sub>	power dissipation capacitance	$V_I = GND$ to $V_{CC} - 1.5 V$	[3]	-	9	-	-	-	pF

<sup>[1]</sup> All typical values are measured at  $T_{amb}$  = 25 °C.

 $t_{en}$  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  $P_D$  ( $\mu W$ ).

 $P_D = C_{PD} \times V_{CC}^2 \times f_i + \Sigma((C_L \times C_{SW}) \times V_{CC}^2 \times f_o)$  where:

 $f_i$  = input frequency in MHz;

f<sub>o</sub> = output frequency in MHz;

C<sub>L</sub> = output load capacitance in pF;

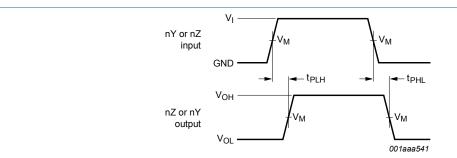
C<sub>SW</sub> = maximum switch capacitance in pF (see <u>Table 7</u>);

V<sub>CC</sub> = supply voltage in volts;

 $\Sigma((C_L \times C_{SW}) \times V_{CC}^2 \times f_0) = \text{sum of outputs.}$ 

<sup>[2]</sup> t<sub>pd</sub> is the same as t<sub>PLH</sub> and t<sub>PHL</sub>.

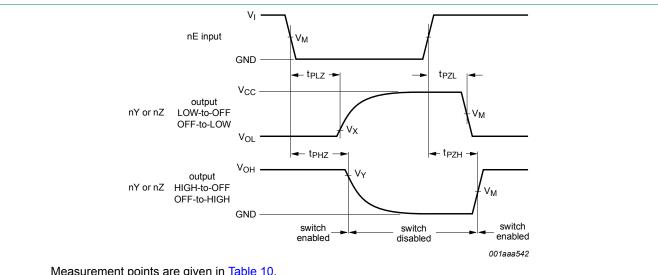
#### 11.1. Waveforms and test circuit



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.

Input (nY or nZ) to output (nZ or nY) propagation delays Fig. 8.



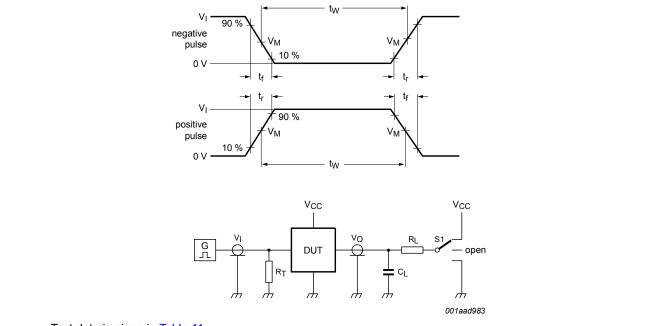
Measurement points are given in Table 10.

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

**Enable and disable times** Fig. 9.

**Table 10. Measurement points** 

Туре	Input	Output					
	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>			
74HC2G66-Q100	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	V <sub>OL</sub> + 10 %	V <sub>OH</sub> - 10 %			
74HCT2G66-Q100	1.3 V	1.3 V	V <sub>OL</sub> + 10 %	V <sub>OH</sub> - 10 %			



Test data is given in Table 11.

Definitions for test circuit:

 $R_T$  = Termination resistance should be equal to output impedance  $Z_0$  of the pulse generator.

C<sub>L</sub> = Load capacitance including jig and probe capacitance.

 $R_L$  = Load resistance.

S1 = Test selection switch.

Fig. 10. Test circuit for measuring switching times

Table 11. Test data

Туре	Input	nput			S1 position		
	V <sub>I</sub>	t <sub>r</sub> , t <sub>f</sub> [1]	CL	R <sub>L</sub>	t <sub>PHL</sub> , t <sub>PLH</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>
74HC2G66-Q100	GND to V <sub>CC</sub>	6 ns	50 pF	1 kΩ	open	GND	V <sub>CC</sub>
74HCT2G66-Q100	GND to 3 V	6 ns	50 pF	1 kΩ	open	GND	V <sub>CC</sub>

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

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### 11.2. Additional dynamic characteristics

Table 12. Additional dynamic characteristics for 74HC2G66-Q100 and 74HCT2G66-Q100

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	Тур	Max	Unit
THD	total harmonic distortion	$f_i$ = 1 kHz; $R_L$ = 10 kΩ; see <u>Fig. 11</u>				
		V <sub>CC</sub> = 4.5 V; V <sub>I</sub> = 4.0 V (p-p)	-	0.04	-	%
		V <sub>CC</sub> = 9.0 V; V <sub>I</sub> = 8.0 V (p-p)	-	0.02	-	%
		$f_i$ = 10 kHz; $R_L$ = 10 kΩ; see <u>Fig. 11</u>				
		V <sub>CC</sub> = 4.5 V; V <sub>I</sub> = 4.0 V (p-p)	-	0.12	-	%
		V <sub>CC</sub> = 9.0 V; V <sub>I</sub> = 8.0 V (p-p)	-	0.06	-	%
f <sub>(-3dB)</sub>	-3 dB frequency response	$R_L = 50 \Omega$ ; $C_L = 10 pF$ ; see Fig. 12 and Fig. 13				
		V <sub>CC</sub> = 4.5 V	-	180	-	MHz
		V <sub>CC</sub> = 9.0 V	-	200	-	MHz
$\alpha_{iso}$	isolation (OFF-state)	$R_L = 600 \Omega$ ; $f_i = 1 MHz$ ; see Fig. 14 and Fig. 15				
		V <sub>CC</sub> = 4.5 V	-	-50	-	dB
		V <sub>CC</sub> = 9.0 V	-	-50	-	dB
V <sub>ct</sub>	crosstalk voltage	between digital input and switch (peak to peak value); $R_L = 600 \Omega$ ; $f_i = 1 MHz$ ; see Fig. 16				
		V <sub>CC</sub> = 4.5 V	-	110	-	mV
		V <sub>CC</sub> = 9.0 V	-	220	-	mV
Xtalk	crosstalk	between switches; $R_L$ = 600 $\Omega$ ; $f_i$ = 1 MHz; see Fig. 17				
		V <sub>CC</sub> = 4.5 V	-	-60	-	dB
		V <sub>CC</sub> = 9.0 V	-	-60	-	dB

### 11.3. Test circuits and graphs

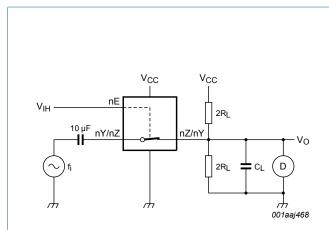
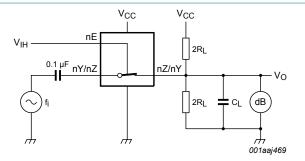
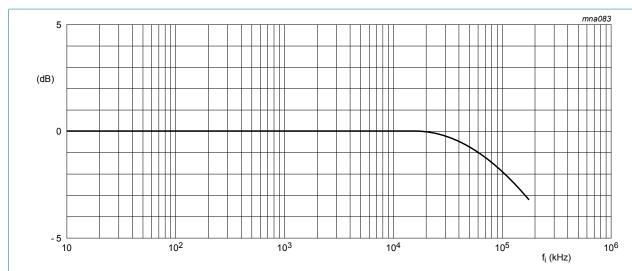


Fig. 11. Test circuit for measuring total harmonic distortion



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  $\Omega$ ). Then Increase the input frequency until the dB meter reads -3 dB.

Fig. 12. Test circuit for measuring the -3 dB frequency response



Test conditions:  $V_{CC}$  = 4.5 V; GND = 0 V;  $R_L$  = 50  $\Omega$ ;  $R_{SOURCE}$  = 1 k $\Omega$ .

Fig. 13. Typical -3 dB frequency response

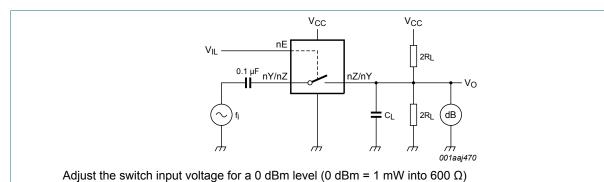


Fig. 14. Test circuit for measuring isolation (OFF-state)

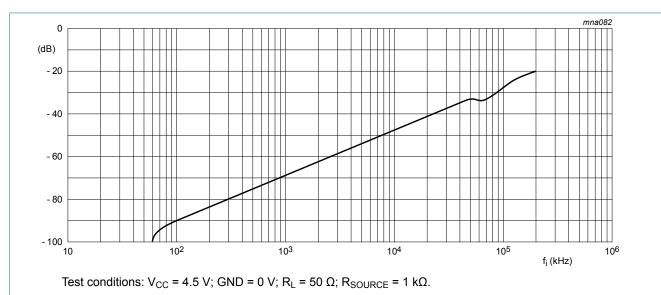
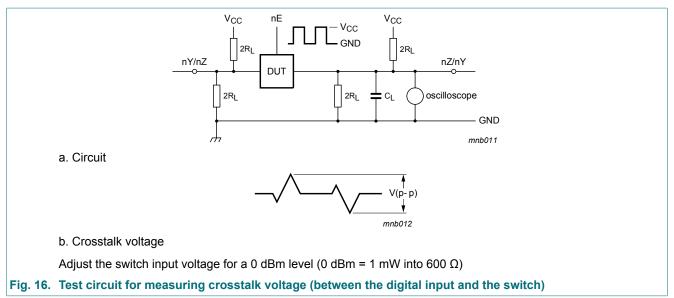
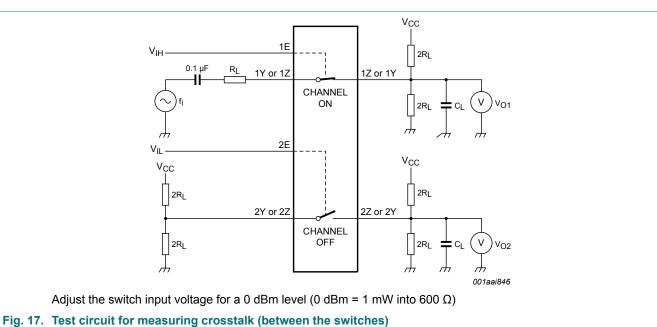


Fig. 15. Typical isolation (OFF-state) as a function of frequency





**Product data sheet** 

# 12. Package outline

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

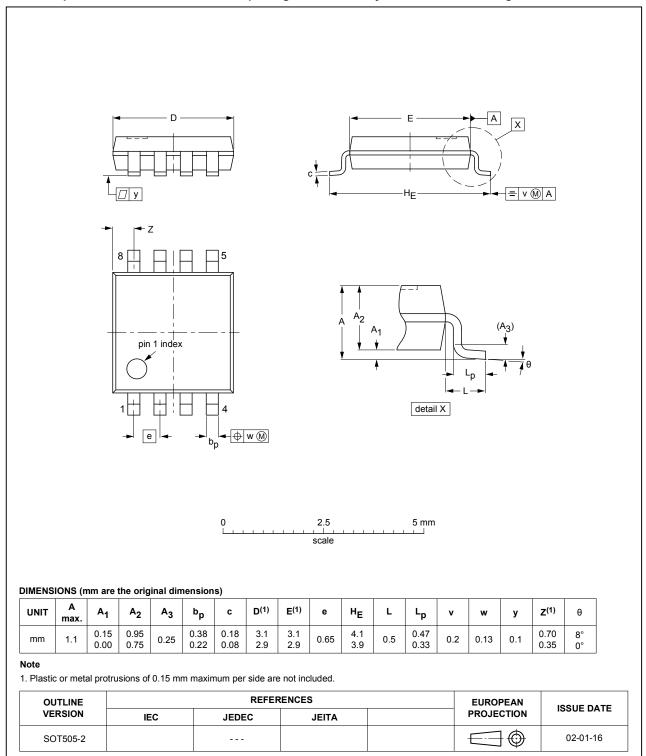


Fig. 18. Package outline SOT505-2 (TSSOP8)

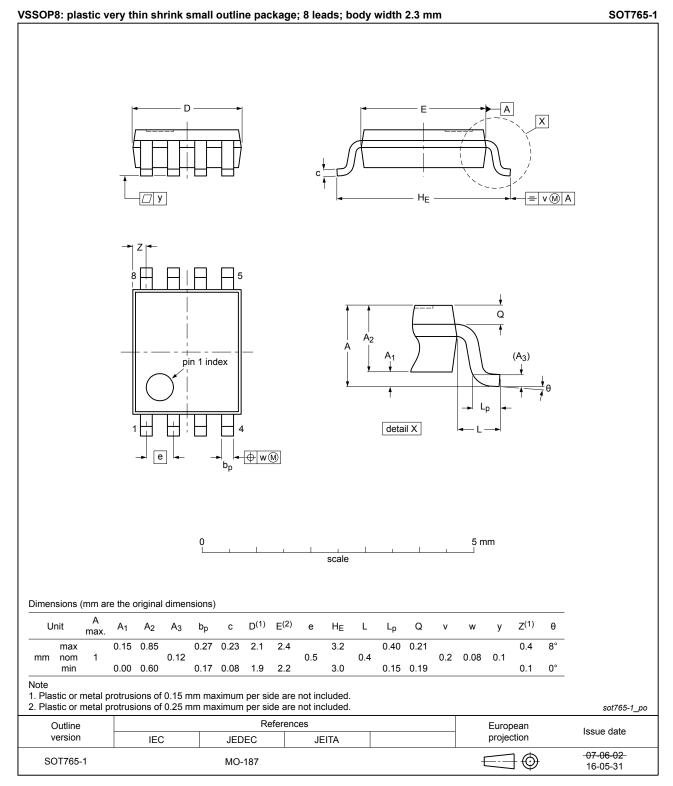


Fig. 19. Package outline SOT765-1 (VSSOP8)

### 13. Abbreviations

#### **Table 13. Abbreviations**

Acronym	Description
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
MIL	Military
MM	Machine Model

# 14. Revision history

#### **Table 14. Revision history**

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT2G66_Q100 v.2	20181106	Product data sheet	-	74HC_HCT2G66_Q100 v.1
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li>Corrected Fig. 2</li> <li>Package outline drawing SOT765-1 updated</li> </ul>			
74HC_HCT2G66_Q100 v.1	20131118	Product data sheet	-	-

### 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.

- 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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