

AMIS-42670

High-Speed CAN Transceiver for Long Networks

Description

The AMIS-42670 CAN transceiver is the interface between a controller area network (CAN) protocol controller and the physical bus and may be used in both 12 V and 24 V systems. The transceiver provides differential transmit capability to the bus and differential receive capability to the CAN controller. Due to the wide common-mode voltage range of the receiver inputs, the AMIS-42670 is able to reach outstanding levels of electromagnetic susceptibility (EMS). Similarly, extremely low electromagnetic emission (EME) is achieved by the excellent matching of the output signals.

The AMIS-42670 is the industrial version of the AMIS-30660 and primarily intended for applications where long network lengths are mandatory. Examples are elevators, in-building networks, process control and trains. To cope with the long bus delay the communication speed needs to be low. AMIS-42670 allows low transmit data rates down to 10 kbit/s or lower.

Features

- Fully Compatible with the ISO 11898-2 Standard
- Certified “Authentication on CAN Transceiver Conformance (d1.1)”
- Wide Range of Bus Communication Speed (0 Mbit/s up to 1 Mbit/s)
- Allows Low Transmit Data Rate in Networks Exceeding 1 km
- Ideally Suited for 12 V and 24 V Industrial and Automotive Applications
- Low Electromagnetic Emission (EME) Common-Mode Choke is No Longer Required
- Differential Receiver with Wide Common-Mode Range (± 35 V) for High EMS
- No Disturbance of the Bus Lines with an Unpowered Node
- Thermal Protection
- Bus Pins Protected Against Transients
- Silent Mode in which the Transmitter is Disabled
- Short Circuit Proof to Supply Voltage and Ground
- Logic Level Inputs Compatible with 3.3 V Devices
- These are Pb-Free Devices*

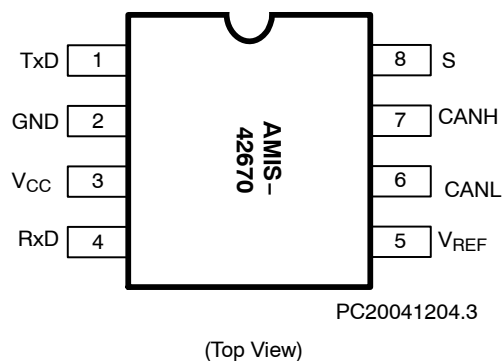
*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.



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PIN ASSIGNMENT



ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 9 of this data sheet.

Table 1. TECHNICAL CHARACTERISTICS

Symbol	Parameter	Condition	Max	Max	Unit
V_{CANH}	DC Voltage at Pin CANH	$0 < V_{CC} < 5.25 \text{ V}$; no time limit	-45	+45	V
V_{CANL}	DC Voltage at Pin CANL	$0 < V_{CC} < 5.25 \text{ V}$; no time limit	-45	+45	V
$V_{o(dif)(bus_dom)}$	Differential Bus Output Voltage in Dominant State	$42.5 \Omega < R_{LT} < 60 \Omega$	1.5	3	V
$t_{pd(rec-dom)}$	Propagation Delay TxD to RxD	See Figure 6	70	245	ns
$t_{pd(dom-rec)}$	Propagation Delay TxD to RxD	See Figure 6	100	245	ns
$C_{M-range}$	Input Common-Mode Range for Comparator	Guaranteed Differential Receiver Threshold and Leakage Current	-35	+35	V
$V_{CM-peak}$	Common-Mode Peak	See Figures 7 and 8 (Note 1)	-500	500	mV
$V_{CM-step}$	Common-Mode Step	See Figures 7 and 8 (Note 1)	-150	150	mV

1. The parameters $V_{CM-peak}$ and $V_{CM-step}$ guarantee low electromagnetic emission.

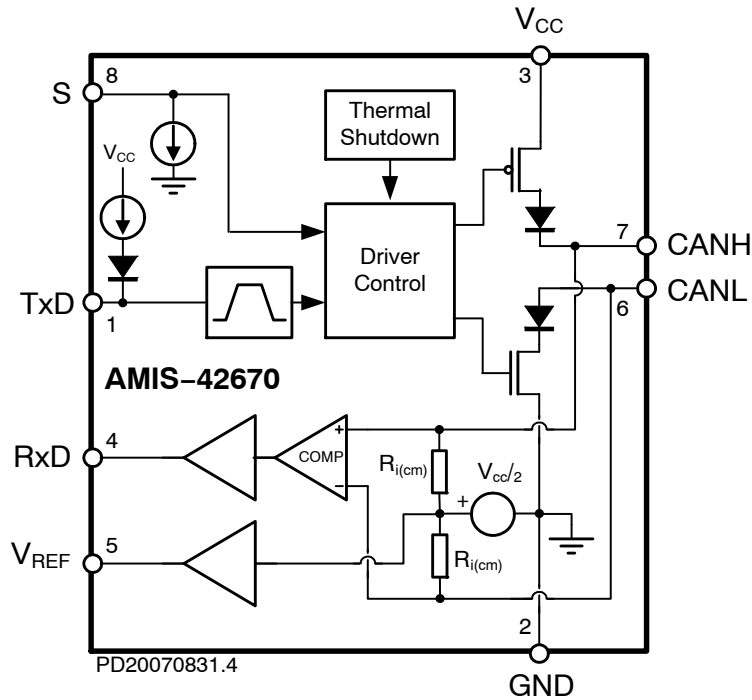


Figure 1. Block Diagram

Table 2. PIN DESCRIPTION

Pin	Name	Description
1	TxD	Transmit Data Input; Low Input → Dominant Driver; Internal Pullup Current
2	GND	Ground
3	VCC	Supply Voltage
4	RxD	Receive Data Output; Dominant Transmitter → Low Output
5	VREF	Reference Voltage Output
6	CANL	Low-Level CAN Bus Line (Low in Dominant Mode)
7	CANH	High-Level CAN Bus Line (High in Dominant Mode)
8	S	Silent Mode Control Input; Internal Pulldown Current

Table 3. ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Conditions	Min.	Max.	Unit
V _{CC}	Supply Voltage		-0.3	+7	V
V _{CANH}	DC Voltage at Pin CANH	0 < V _{CC} < 5.25 V; no time limit	-45	+45	V
V _{CANL}	DC Voltage at Pin CANL	0 < V _{CC} < 5.25 V; no time limit	-45	+45	V
V _{TxD}	DC Voltage at Pin TxD		-0.3	V _{CC} + 0.3	V
V _{RxD}	DC Voltage at Pin RxD		-0.3	V _{CC} + 0.3	V
V _S	DC Voltage at Pin S		-0.3	V _{CC} + 0.3	V
V _{REF}	DC Voltage at Pin V _{REF}		-0.3	V _{CC} + 0.3	V
V _{tran} (CANH)	Transient Voltage at Pin CANH	Note 2	-150	+150	V
V _{tran} (CANL)	Transient Voltage at Pin CANL	Note 2	-150	+150	V
V _{esd}	Electrostatic Discharge Voltage at All Pins	Note 3 Note 5	-4 -750	+4 +750	kV V
Latch-up	Static Latch-up at All Pins	Note 4		100	mA
T _{stg}	Storage Temperature		-55	+155	°C
T _A	Ambient Temperature		-40	+125	°C
T _J	Maximum Junction Temperature		-40	+150	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

2. Applied transient waveforms in accordance with ISO 7637 part 3, test pulses 1, 2, 3a, and 3b (see Figure 3).
3. Standardized human body model ESD pulses in accordance to MIL883 method 3015.7.
4. Static latch-up immunity: static latch-up protection level when tested according to EIA/JESD78.
5. Standardized charged device model ESD pulses when tested according to EOS/ESD DS5.3-1993.

Table 4. THERMAL CHARACTERISTICS

Symbol	Parameter	Conditions	Value	Unit
R _{th} (vj-a)	Thermal Resistance from Junction-to-Ambient in SOIC-8 Package	In Free Air	150	k/W
R _{th} (vj-s)	Thermal Resistance from Junction-to-Substrate of Bare Die	In Free Air	45	k/W

APPLICATION INFORMATION

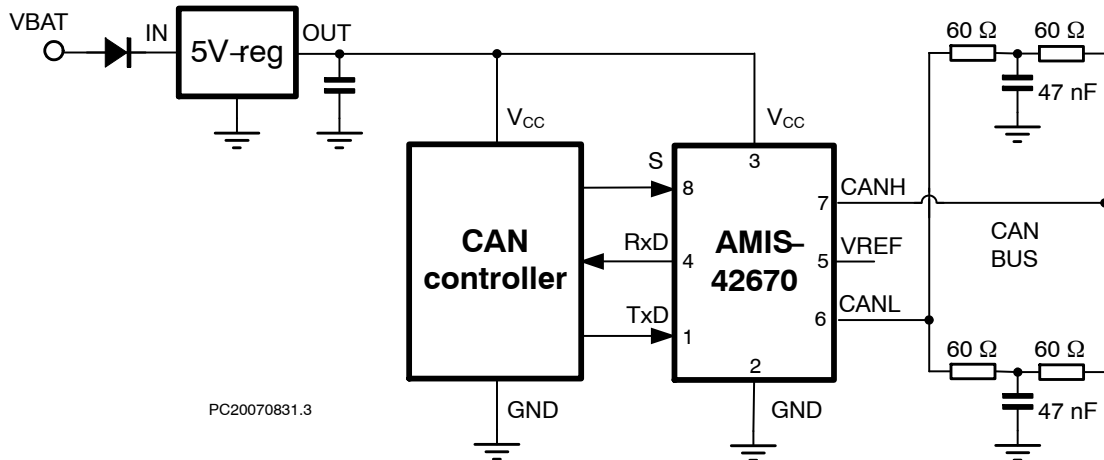


Figure 2. Application Diagram

FUNCTIONAL DESCRIPTION

Operating Modes

The behavior of AMIS-42670 under various conditions is illustrated in Table 3 below. In case the device is powered, one of two operating modes can be selected through Pin S.

Table 5. FUNCTIONAL TABLE OF AMIS-42670; x = don't care

VCC	Pin TxD	Pin S	Pin CANH	Pin CANL	Bus State	Pin RxD
4.75 V to 5.25 V	0	0 (or Floating)	High	Low	Dominant	0
4.75 V to 5.25 V	x	1	$V_{CC}/2$	$V_{CC}/2$	Recessive	1
4.75 V to 5.25 V	1 (or Floating)	X	$V_{CC}/2$	$V_{CC}/2$	Recessive	1
$V_{CC} < PORL$ (Unpowered)	x	X	$0 V < CANH < V_{CC}$	$0 V < CANL < V_{CC}$	Recessive	1
$PORL < V_{CC} < 4.75 V$	$> 2 V$	X	$0 V < CANH < V_{CC}$	$0 V < CANL < V_{CC}$	Recessive	1

High-Speed Mode

If Pin S is pulled low (or left floating), the transceiver is in its high-speed mode and is able to communicate via the bus lines. The signals are transmitted and received to the CAN controller via the Pins TxD and RxD. The slopes on the bus line outputs are optimized to give extremely low electromagnetic emissions.

Silent Mode

In silent mode, the transmitter is disabled. All other IC functions continue to operate. The silent mode is selected by connecting Pin S to V_{CC} and can be used to prevent network communication from being blocked, due to a CAN controller which is out of control.

Over-temperature Detection

A thermal protection circuit protects the IC from damage by switching off the transmitter if the junction temperature exceeds a value of approximately 160°C. Because the transmitter dissipates most of the power, the power dissipation and temperature of the IC is reduced. All other

IC functions continue to operate. The transmitter off-state resets when Pin TxD goes high. The thermal protection circuit is particularly necessary when a bus line short-circuits.

High Communication Speed Range

The transceiver is primarily intended for industrial applications. It allows very low baud rates needed for long bus length applications. But also high speed communication is possible up to 1 Mbit/s.

Fail-Safe Features

A current-limiting circuit protects the transmitter output stage from damage caused by an accidental short-circuit to either positive or negative supply voltage, although power dissipation increases during this fault condition.

The pins CANH and CANL are protected from automotive electrical transients (according to "ISO 7637"; see Figure 3). Pin TxD is pulled high internally should the input become disconnected.

ELECTRICAL CHARACTERISTICS

Definitions

All voltages are referenced to GND (Pin 2). Positive currents flow into the IC. Sinking current means the current is flowing into the pin; sourcing current means the current is flowing out of the pin.

Table 6. DC CHARACTERISTICS $V_{CC} = 4.75\text{ V to }5.25\text{ V}$, $T_A = -40^\circ\text{C to }+150^\circ\text{C}$; $R_{LT} = 60\ \Omega$ unless specified otherwise.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
SUPPLY (Pin V_{CC})						
I_{CC}	Supply Current	Dominant; $V_{TXD} = 0\text{ V}$ Recessive; $V_{TXD} = V_{CC}$	25 2	45 4	65 8	mA
TRANSMITTER DATA INPUT (Pin TXD)						
V_{IH}	High-Level Input Voltage	Output Recessive	2.0	–	$V_{CC} + 0.3$	V
V_{IL}	Low-Level Input Voltage	Output Dominant	–0.3	–	+0.8	V
I_{IH}	High-Level Input Current	$V_{TXD} = V_{CC}$	–1	0	+1	μA
I_{IL}	Low-Level Input Current	$V_{TXD} = 0\text{ V}$	–75	–200	–350	μA
C_i	Input Capacitance	Not Tested	–	5	10	pF
MODE SELECT (Pin S)						
V_{IH}	High-Level Input Voltage	Silent Mode	2.0	–	$V_{CC} + 0.3$	V
V_{IL}	Low-Level Input Voltage	High-Speed Mode	–0.3	–	+0.8	V
I_{IH}	High-Level Input Current	$V_S = 2\text{ V}$	20	30	50	μA
I_{IL}	Low-Level Input Current	$V_S = 0.8\text{ V}$	15	30	45	μA
RECEIVER DATA OUTPUT (Pin RxD)						
V_{OH}	High-Level Output Voltage	$I_{RXD} = -10\text{ mA}$	$0.6 \times V_{CC}$	$0.75 \times V_{CC}$		V
V_{OL}	Low-Level Output Voltage	$I_{RXD} = 6\text{ mA}$		0.25	0.45	V
REFERENCE VOLTAGE OUTPUT (Pin V_{REF})						
V_{REF}	Reference Output Voltage	$-50\ \mu\text{A} < I_{VREF} < +50\ \mu\text{A}$	$0.45 \times V_{CC}$	$0.50 \times V_{CC}$	$0.55 \times V_{CC}$	V
V_{REF_CM}	Reference Output Voltage for Full Common Mode Range	$-35\text{ V} < V_{CANH} < +35\text{ V}$; $-35\text{ V} < V_{CANL} < +35\text{ V}$	$0.40 \times V_{CC}$	$0.50 \times V_{CC}$	$0.60 \times V_{CC}$	V
BUS LINES (Pins $CANH$ and $CANL$)						
$V_{O(reces)}(CANH)$	Recessive Bus Voltage at Pin $CANH$	$V_{TXD} = V_{CC}$; No Load	2.0	2.5	3.0	V
$V_{O(reces)}(CANL)$	Recessive Bus Voltage at Pin $CANL$	$V_{TXD} = V_{CC}$; No Load	2.0	2.5	3.0	V
$I_{O(reces)}(CANH)$	Recessive Output Current at Pin $CANH$	$-35\text{ V} < V_{CANH} < +35\text{ V}$; $0\text{ V} < V_{CC} < 5.25\text{ V}$	–2.5	–	+2.5	mA
$I_{O(reces)}(CANL)$	Recessive Output Current at Pin $CANL$	$-35\text{ V} < V_{CANL} < +35\text{ V}$; $0\text{ V} < V_{CC} < 5.25\text{ V}$	–2.5	–	+2.5	mA
$V_{O(dom)}(CANH)$	Dominant Output Voltage at Pin $CANH$	$V_{TXD} = 0\text{ V}$	3.0	3.6	4.25	V
$V_{O(dom)}(CANL)$	Dominant Output Voltage at Pin $CANL$	$V_{TXD} = 0\text{ V}$	0.5	1.4	1.75	V
$V_{O(diff)}(bus)$	Differential Bus Output Voltage ($V_{CANH} - V_{CANL}$)	$V_{TXD} = 0\text{ V}$; Dominant; $42.5\ \Omega < R_{LT} < 60\ \Omega$	1.5	2.25	3.0	V
		$V_{TXD} = V_{CC}$; Recessive; No Load	–120	0	+50	mV
$I_{O(sc)}(CANH)$	Short Circuit Output Current at Pin $CANH$	$V_{CANH} = 0\text{ V}$; $V_{TXD} = 0\text{ V}$	–45	–70	–95	mA
$I_{O(sc)}(CANL)$	Short Circuit Output Current at Pin $CANL$	$V_{CANL} = 36\text{ V}$; $V_{TXD} = 0\text{ V}$	45	70	120	mA

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Table 6. DC CHARACTERISTICS $V_{CC} = 4.75 \text{ V to } 5.25 \text{ V}$, $T_A = -40^\circ\text{C to } +150^\circ\text{C}$; $R_{LT} = 60 \Omega$ unless specified otherwise.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
BUS LINES (Pins CANH and CANL)						
$V_{I(dif)}(th)$	Differential Receiver Threshold Voltage	$-5 \text{ V} < V_{CANL} < +10 \text{ V}$; $-5 \text{ V} < V_{CANH} < +10 \text{ V}$; See Figure 4	0.5	0.7	0.9	V
$V_{ihcm(dif)}(th)$	Differential Receiver Threshold Voltage for High Common-Mode	$-35 \text{ V} < V_{CANL} < +35 \text{ V}$; $-35 \text{ V} < V_{CANH} < +35 \text{ V}$; See Figure 4	0.25	0.7	1.05	V
$V_{I(dif)}(hys)$	Differential Receiver Input Voltage Hysteresis	$-5 \text{ V} < V_{CANL} < +10 \text{ V}$; $-5 \text{ V} < V_{CANH} < +10 \text{ V}$; See Figure 4	50	70	100	mV
$R_{i(cm)}(CANH)$	Common-Mode Input Resistance at Pin CANH		15	25	37	k Ω
$R_{i(cm)}(CANL)$	Common-Mode Input Resistance at Pin CANL		15	25	37	k Ω
$R_{i(cm)}(m)$	Matching Between Pin CANH and Pin CANL Common-Mode Input Resistance	$V_{CANH} = V_{CANL}$	-3	0	+3	%
$R_{i(dif)}$	Differential Input Resistance		25	50	75	k Ω
$R_{i(cm)}(m)$	Matching Between Pin CANH and Pin CANL Common-Mode Input Resistance	$V_{CANH} = V_{CANL}$	-3	0	+3	%
$R_{i(dif)}$	Differential Input Resistance		25	50	75	k Ω
$C_{i(CANH)}$	Input Capacitance at Pin CANH	$V_{TxD} = V_{CC}$; Not Tested		7.5	20	pF
$C_{i(CANL)}$	Input Capacitance at Pin CANL	$V_{TxD} = V_{CC}$; Not Tested		7.5	20	pF
$C_{i(dif)}$	Differential Input capacitance	$V_{TxD} = V_{CC}$; Not Tested		3.75	10	pF
$I_{LI}(CANH)$	Input Leakage Current at Pin CANH	$V_{CC} = 0 \text{ V}$; $V_{CANH} = 5 \text{ V}$	10	170	250	μA
$I_{LI}(CANL)$	Input Leakage Current at Pin CANL	$V_{CC} = 0 \text{ V}$; $V_{CANL} = 5 \text{ V}$	10	170	250	μA
$V_{CM-peak}$	Common-Mode Peak During Transition from Dom \rightarrow Rec or Rec \rightarrow Dom	See Figures 7 and 8	-500		500	mV
$V_{CM-step}$	Difference in Common-Mode Between Dominant and Recessive State	See Figures 7 and 8	-150		150	mV
POWER-ON-RESET (POR)						
PORL	POR Level	CANH, CANL, V_{ref} in Tri-State Below POR Level	2.2	3.5	4.7	V
THERMAL SHUTDOWN						
$T_{J(sd)}$	Shutdown Junction Temperature		150	160	180	$^\circ\text{C}$
TIMING CHARACTERISTICS (see Figures 5 and 6)						
$t_d(TxD-BUSon)$	Delay TxD to Bus Active	$V_s = 0 \text{ V}$	40	85	130	ns
$t_d(TxD-BUSoff)$	Delay TxD to Bus Inactive	$V_s = 0 \text{ V}$	30	60	105	ns
$t_d(BUSon-RxD)$	Delay Bus Active to RxD	$V_s = 0 \text{ V}$	25	55	105	ns
$t_d(BUSoff-RxD)$	Delay Bus Inactive to RxD	$V_s = 0 \text{ V}$	65	100	135	ns
$t_{pd}(rec-dom)$	Propagation delay TxD to RxD from Recessive to Dominant	$V_s = 0 \text{ V}$	70		245	ns
$t_d(dom-rec)$	Propagation Delay TxD to RxD from Dominant to Recessive	$V_s = 0 \text{ V}$	100		245	ns

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MEASUREMENT SETUPS AND DEFINITIONS

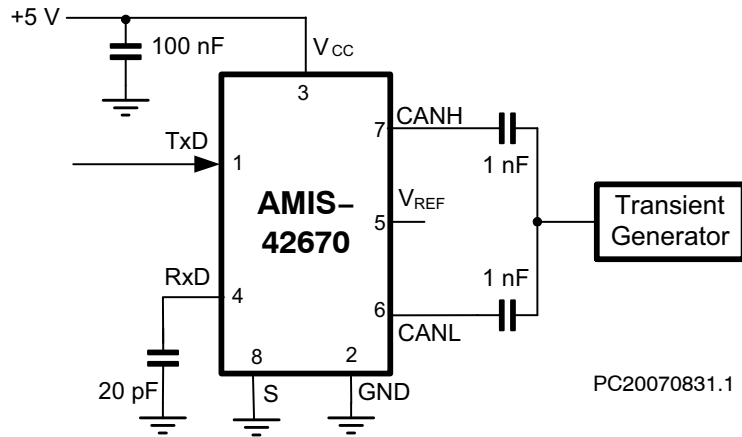


Figure 3. Test Circuit for Transients

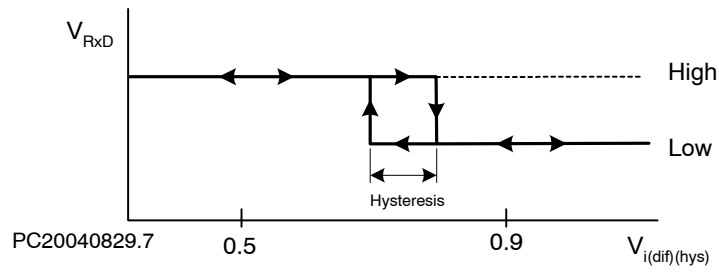


Figure 4. Hysteresis of the Receiver

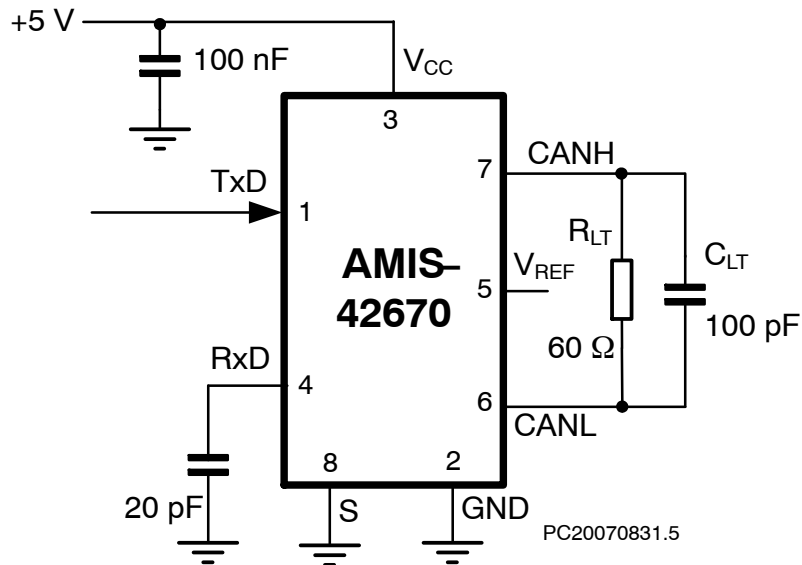


Figure 5. Test Circuit for Timing Characteristics

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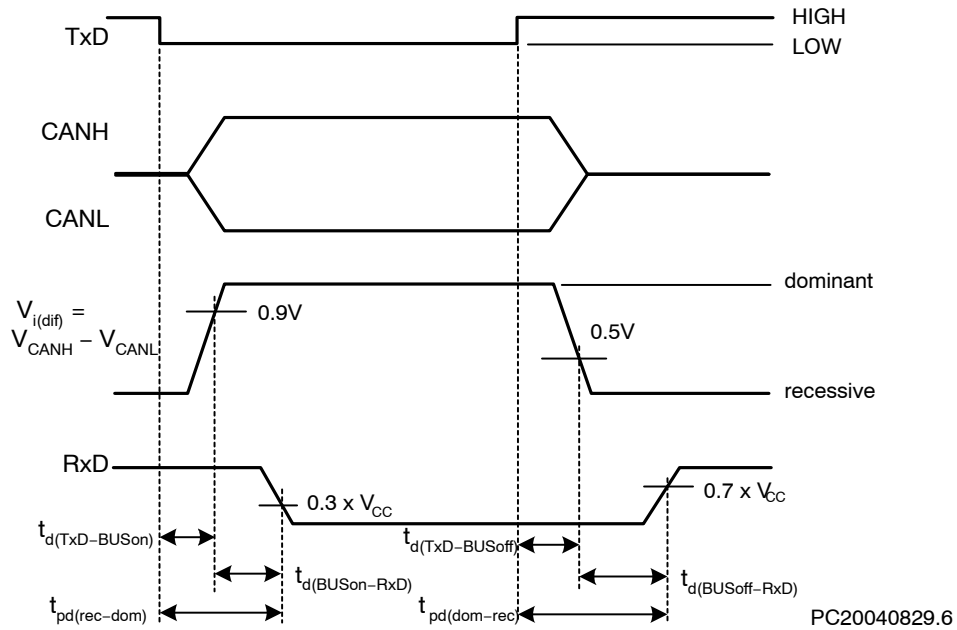


Figure 6. : Timing Diagram for AC Characteristics

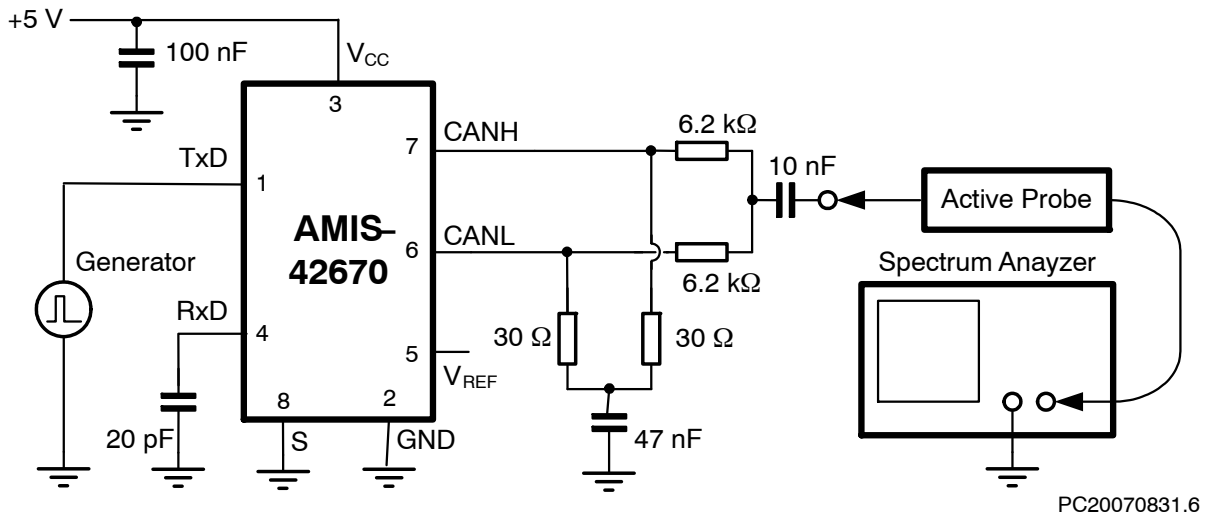


Figure 7. Basic Test Setup for Electromagnetic Measurement

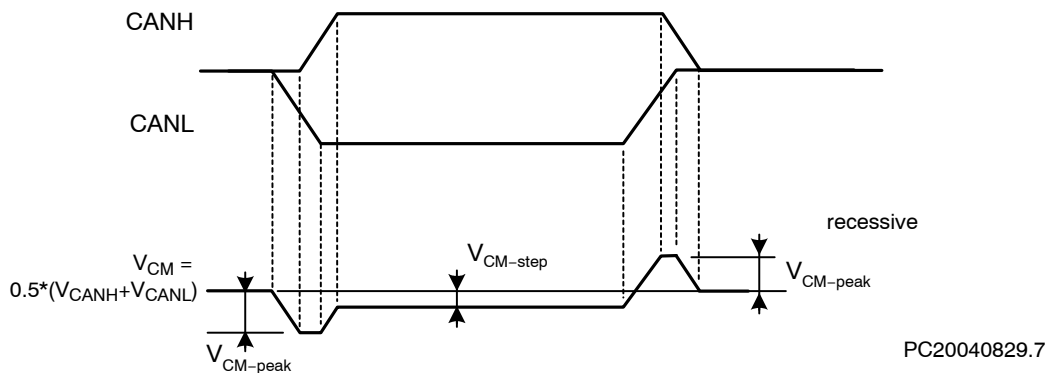


Figure 8. Common-Mode Voltage Peaks (See Measurement Setup Figure 7)

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DEVICE ORDERING INFORMATION

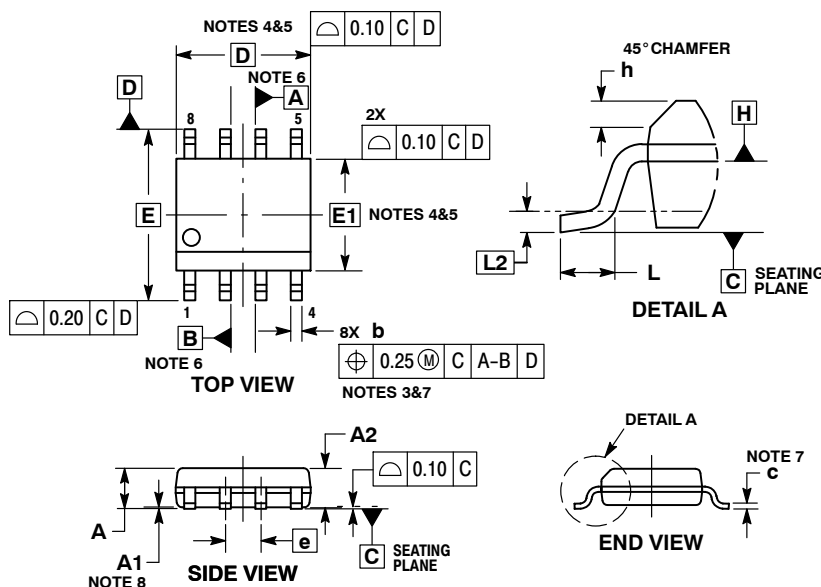
Part Number	Temperature Range	Package Type	Shipping [†]
AMIS42670ICAH2G	-40°C – 125°C	SOIC-8 (Pb-Free)	96 Tube / Tray
AMIS42670ICAH2RG	-40°C – 125°C	SOIC-8 (Pb-Free)	3000 / Tape & Reel

[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

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SCALE 1:1

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CASE 751AZ
ISSUE B

DATE 18 MAY 2015

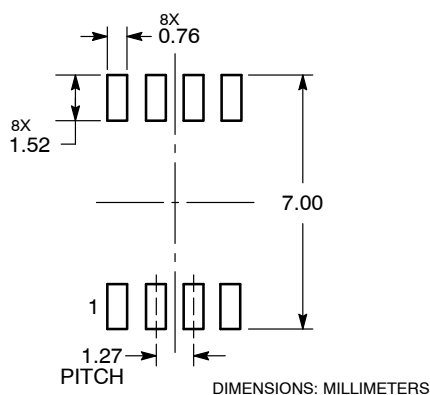


NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE PROTRUSION SHALL BE 0.004 mm IN EXCESS OF MAXIMUM MATERIAL CONDITION.
4. DIMENSION D DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH, PROTRUSIONS OR GATE BURRS SHALL NOT EXCEED 0.006 mm PER SIDE. DIMENSION E1 DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.010 mm PER SIDE.
5. THE PACKAGE TOP MAY BE SMALLER THAN THE PACKAGE BOTTOM. DIMENSIONS D AND E1 ARE DETERMINED AT THE OUTER-MOST EXTREMES OF THE PLASTIC BODY AT DATUM H.
6. DIMENSIONS A AND B ARE TO BE DETERMINED AT DATUM H.
7. DIMENSIONS b AND c APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN 0.10 TO 0.25 FROM THE LEAD TIP.
8. A1 IS DEFINED AS THE VERTICAL DISTANCE FROM THE SEATING PLANE TO THE LOWEST POINT ON THE PACKAGE BODY.

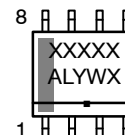
DIM	MILLIMETERS	
	MIN	MAX
A	---	1.75
A1	0.10	0.25
A2	1.25	---
b	0.31	0.51
c	0.10	0.25
D	4.90 BSC	
E	6.00 BSC	
E1	3.90 BSC	
e	1.27 BSC	
h	0.25	0.41
L	0.40	1.27
L2	0.25 BSC	

RECOMMENDED
SOLDERING FOOTPRINT*



*For additional information on our Pb-Free strategy and soldering details, please download the **onsemi** Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

GENERIC
MARKING DIAGRAM*



XXXXX = Specific Device Code
A = Assembly Location
L = Wafer Lot
Y = Year
W = Work Week
■ = Pb-Free Package

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "■", may or may not be present. Some products may not follow the Generic Marking.

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