

# RENESAS TECHNICAL UPDATE

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Product Category	MPU/MCU		Document No.	TN-RX*-A079A/E	Rev.	1.00
Title	Changes to RX62T Group and RX62G Group Specifications of Programmable Gain Amp Input voltage range		Information Category	Technical Notification		
Applicable Product	RX62T Group, RX62G Group	Lot No.	Reference Document	RX62T Group User's Manual: Hardware Rev.1.30 (R01UH0034EJ0130) RX62G Group User's Manual: Hardware Rev.1.00 (R01UH0321EJ0100)		
		All lots				

This document describes changes to specifications of Input voltage range of Programmable Gain Amp in RX62T Group User's Manual: Hardware Rev.1.30 and RX62G Group User's Manual: Hardware Rev.1.00.

Pages 1422 of 1446 in RX62T Group User's Manual: Hardware Rev.1.30.

Pages 1422 of 1446 in RX62G Group User's Manual: Hardware Rev.1.00.

Before change

Item	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Analog input capacitance	Cin	-	-	6	pF	
Input offset voltage	Voff	-	-	8	mV	
Input voltage range (Vin)	Gain × 2.000	0.050 x AVcc	-	0.38 x AVcc	V	
	Gain × 2.500	0.047 x AVcc	-	0.30 x AVcc		
	Gain × 3.077	0.045 x AVcc	-	0.24 x AVcc		
	Gain × 3.636	0.042 x AVcc	-	0.21 x AVcc		
	Gain × 4.000	0.040 x AVcc	-	0.19 x AVcc		
	Gain × 4.444	0.036 x AVcc	-	0.17 x AVcc		
	Gain × 5.000	0.033 x AVcc	-	0.15 x AVcc		
	Gain × 5.714	0.031 x AVcc	-	0.13 x AVcc		
	Gain × 6.667	0.029 x AVcc	-	0.11 x AVcc		
	Gain × 10.000	0.025 x AVcc	-	0.08 x AVcc		
Gain × 13.333	0.023 x AVcc	-	0.06 x AVcc			
Slew rate	SR	10	-	-	V/μs	
Gain error	Gain × 2.000	-	-	1	%	
	Gain × 2.500	-	-	1		
	Gain × 3.077	-	-	1		
	Gain × 3.636	-	-	1.5		
	Gain × 4.000	-	-	1.5		
	Gain × 4.444	-	-	2		
	Gain × 5.000	-	-	2		
	Gain × 5.714	-	-	2		
	Gain × 6.667	-	-	3		
	Gain × 10.000	-	-	4		
Gain × 13.333	-	-	4			

After change

Item	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Analog input capacitance	Cin	-	-	6	pF	
Input offset voltage	Voff	-	-	8	mV	
Input voltage range (Vin)	Gain × 2.000	0.050 x AVcc	-	0.450 × AVcc	V	
	Gain × 2.500	0.047 x AVcc	-	0.360 × AVcc		
	Gain × 3.077	0.045 x AVcc	-	0.292 × AVcc		
	Gain × 3.636	0.042 x AVcc	-	0.247 × AVcc		
	Gain × 4.000	0.040 x AVcc	-	0.212 × AVcc		
	Gain × 4.444	0.036 x AVcc	-	0.191 × AVcc		
	Gain × 5.000	0.033 x AVcc	-	0.170 × AVcc		
	Gain × 5.714	0.031 x AVcc	-	0.148 × AVcc		
	Gain × 6.667	0.029 x AVcc	-	0.127 × AVcc		
	Gain × 10.000	0.025 x AVcc	-	0.08 x AVcc		
	Gain × 13.333	0.023 x AVcc	-	0.06 x AVcc		
Slew rate	SR	10	-	-	V/μs	
Gain error	Gain × 2.000	-	-	1	%	
	Gain × 2.500	-	-	1		
	Gain × 3.077	-	-	1		
	Gain × 3.636	-	-	1.5		
	Gain × 4.000	-	-	1.5		
	Gain × 4.444	-	-	2		
	Gain × 5.000	-	-	2		
	Gain × 5.714	-	-	2		
	Gain × 6.667	-	-	3		
	Gain × 10.000	-	-	4		
	Gain × 13.333	-	-	4		