

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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1. NDK Part Number NZ2520SH-16.64M-RNA5013A

2. Chipset Maker
3. Chipset Name
4. NDK Specification Number
5. Type
Renesas
R-Car H3
RNA5013A
NZ2520SH

6. Absolute Maximum ratings

	Item		Ratings		Notes
		Min.	Max.	Units	Notes
	Supply voltage	-0.3	+4.0	V	-
2	/ IStorage temp rage	-55	+125	${\mathbb C}$	-

7. Electrical Specification

	Parameters	SYM.		Electrical Spec.			Notes	
	raiailleters		Min.	Тур.	Max.	Units	Notes	
1	Nominal frequency	fnom		16.64		MHz	-	
2	Supply voltage	Vcc	1.62	1.8	1.98	V	-	
3	Current consumption (Operating)	I_{CC}	-	-	3.5	mA	at 1.8V, 25°C	
4	Current consumption (Stand-by)	I_{ST}	-	-	20	μΑ	at 1.8V, 25°C	
5	Output level	-		CMOS			-	
6	Load capacitance	CL			15	pF	-	
7	Operating temp. rage	T _{opr}	-40	-	+105	${\mathbb C}$	-	
8	Overall frequency tolerance	$\Delta f/f_{nom}$	-40	-	+40	ppm	*1	
9	Output voltage	V _{OL}	-	-	0.1 V _{CC}	V	-	
9		V _{OH}	0.9 V _{CC}	-	-	V	-	
10	Rise time (T _r), Fall time (T _f)	T_r/T_f	-	-	6	ns	0.1 V _{CC} to 0.9 V _{CC}	
11	Symmetry	SYM	45	-	55	%	at 1/2 V _{CC}	
12	Start-up time	T _{su}	-	-	4	ms		
13	Output wave form	-	Rectangular				-	
	Stand-by function							
14	#1 PAD input			# 3 PAD output				
14	H level (0.7 V _{CC} to V _{CC}) or Open			Operating				
	L level (0.3 V _{CC} max.)			High impedance				

^{*1 &#}x27;Inclusive of frequency. tolerance (at 25 °C), requency/temperature characteristics, frequency/voltage coefficient.

8. Dimension

