IC – Thermistor Recommend list

March, 2024

28 March 2024

IC – Thermistor Recommended list

This is the list combination of IC and thermistor what Murata recommends. Hope it helps your design to start with thermistor.

Application	IC maker	IC P/N	Thermistor P/N
ADAS	Renesas	R-CarV4H	NCU18XH103F6SRB
		R-CarH3	NCU18XH103F6SRB
	Qualcomm	QAM8295	NCU15WF104F05RL
		QAM850P	NCU15WF104F05RL
		QAM8530	NCU15WF104F05RL
		QAM8795	NCU15WF104F05RL
		SA8155P	NCU18XH103F6SRB
	Horizon	Journey5	NCU18XH103F6SRB

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Application	IC maker	IC P/N	Thermistor P/N
IVI/TCU	Samsung	Exynos8890 V3	NCU18XH103F6SRB
			NCP18XH103F0SRB
	Renesas	R-Car-M3	NCU18XH103F6SRB
		R-Car-M2	NCU18XH103F6SRB
	Qualcomm	Snapdragon SA8155	NCU18XH103F6SRB
			NCP18XH103F0SRB
	Mediatek	MT2712	NCU15WF104D6SRC
BMS	Nanjing Silergy	SA63122GGF	NCU18XH103F6SRB

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Application	IC maker	IC P/N	Thermistor P/N
5G chipset	Qualcomm	SM8650	NCP03WF104F05RL
		SDX75	NCP03WF104F05RL
		SDR855	NCP03WF104F05RL
		SDM865	NCP03WF104F05RL
		SDM855	NCP03WF104F05RL
	UNISOC	T7520	NCP15WB473F03RC
			NCP15WF104F03RC
		UMS9230	NCP15WB473F03RC
			NCP15WF104F03RC
	Samsung	Exynos9630	NCP03WF104F05RL
		Exynos980	NCP03WF104F05RL
		Exynos990	NCP03WF104F05RL

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Application	IC maker	IC P/N	Thermistor P/N
5G chipset	Mediatek	24E(MT6197) / Platform	NCP03WF104F05RL
		24X / Platform	NCP03WF104F05RL
			NCP15XH103F03RC
		23L(Leroy) / Platform	NCP03WF104F05RL
			NCP15WF104F03RC
		23P/ Platform	NCP15XH103F03RC
		MT6186M / SoC	NCP03WF104F05RL
			NCP15XH103F03RC
		MT6883/ SoC	NCP03WF104F05RL
			NCP15XH103F03RC
		MT6885/ SoC	NCP03WF104F05RL
		MT6890/ SoC	NCP03WF104F05RL
			NCP15XH103F03RC

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Application	IC maker	IC P/N	Thermistor P/N
5G chipset	Mediatek	MT6886	NCP15WF104F05RL
		MT6885	NCP03WF104F05RL
			NCP15XH103F03RC
		MT6883	NCP03WF104F05RL
			NCP15XH103F03RC
		MT6765	NCP03WF104F05RL
			NCP15XH103F03RC
		MT6762	NCP03WF104F05RL
			NCP15XH103F03RC
		MT6761	NCP03WF104F05RL
			NCP15XH103F03RC
		MT8195	NCP15XH103F03RC
			NCP15WF104F03RC
		MT8183	NCP15WF104F03RC

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Application	IC maker	IC P/N	Thermistor P/N
NB-IoT	Mediatek	MT2621	NCU15WB473E60RC
		MT2625	NCU15XH103F60RC
	ASR	ASR1601(3601)	NCP15XH103F03RC
		ASR1602(3602)	NCP15XH103F03RC
	Hisilicon	Boudica 200	NCP03WF104F05RL

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Guide to ICs for temperature sensor solutions

If there are insufficient AD ports, you can combine NTC thermistors and RL78/F23, RL78/F24 or RL78/G23 microcontrollers from Renesas Electronics Corporation to implement temperature monitoring for a variety of applications where limited space is available.

Application	IC maker	IC P/N	Thermistor P/N
Automotive	Renesas	RL78/F23	NCU15 Series NCU18 Series
		RL78/F24	
Consumer Industrial		RL78/G23	NCP03 Series NCP15/NCU15 Series NCP18/NCU18 Series

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