



NY5+ Series — 4-bit MCU with 4-ch Speech/Melody

2024/5/31

P/N	Sec (4-bit 6kHz)	Sec (4-bit 8kHz)	Operating Voltage	I/O	ROM	SRAM	IR	QIO	PWM- IO	VC	Int. Rosc	WDT	LVR	LVD	PWM	DAC	Large/Ultra PWM	NY5+_FDB
NY5Q020A	18.3	13.7	2.0~5.5V	8	48K x 10	248 x 4	v	8	-	v	+/- 0.5%	v	v	v	12-bit	12-bit	v	-16
NY5Q026A	25.0	18.8	2.0~5.5V	4	64K x 10	248 x 4	v	4	-	v	+/- 0.5%	v	v	v	12-bit	12-bit	v	-16
NY5Q040A	38.3	28.7	2.0~5.5V	8	96K x 10	248 x 4	v	8	-	v	+/- 0.5%	v	v	v	12-bit	12-bit	v	-16
NY5Q046A	45.0	33.8	2.0~5.5V	12	112K x 10	248 x 4	v	12	8	v	+/- 0.5%	v	v	v	12-bit	12-bit	v	-16
NY5Q060A	58.3	43.7	2.0~5.5V	16	144K x 10	248 x 4	v	16	8	v	+/- 0.5%	v	v	v	12-bit	12-bit	v	-16
NY5Q080A	78.3	58.7	2.0~5.5V	12	192K x 10	248 x 4	v	12	8	v	+/- 0.5%	v	v	v	12-bit	12-bit	v	-16
NY5Q092A	91.6	68.7	2.0~5.5V	16	224K x 10	248 x 4	v	16	8	v	+/- 0.5%	v	v	v	12-bit	12-bit	v	-16
NY5Q160A	158.3	118.7	2.0~5.5V	12	384K x 10	248 x 4	v	12	8	v	+/- 0.5%	v	v	v	12-bit	12-bit	v	-16
NY5Q172A	171.6	128.7	2.0~5.5V	16	416K x 10	248 x 4	v	16	8	v	+/- 0.5%	v	v	v	12-bit	12-bit	v	-16
NY5Q342A	345.0	258.8	2.0~5.5V	20	832K x 10	248 x 4	v	20	8	v	+/- 0.5%	v	v	v	12-bit	12-bit	v	-16

Remarks:

1. IR: Infrared output, optional IR carrier frequency and optional data high/low IR output supported.
2. QIO: Quick-IO output signal.
3. LCO: Large Current Output.
4. VC: 16-level volume control for both PWM and DAC.
5. LVR: Low Voltage Reset at 1.8V.
6. LVD(NY5+): 7-level Low Voltage Detect.
7. PWM: Output volume level compare Ultra > Large > Normal.
8. NY5Q026A, NY5Q046A, NY5Q080A, and NY5Q160A are for package only.