

The Philips Family of High Performance Companders

	V _{CC}	I _{CC}	Pins	Packages	ALC Voltage	Reference Gain	Unity Down	Power Features	Key	Applications
NE/SA570	6-24V	3.2mA	16	D, F, N	Both Channels	Fixed 1.8V	775mV _{RMS}	No	<ul style="list-style-type: none"> - Excellent Unity Gain Tracking Error - Excellent THD 	High Performance Audio Circuits "Hi-Fi Commercial Quality"
NE/SA571	6-18V	3.2mA	16	D, F, N	Both Channels	Fixed 1.8V	775mV _{RMS}	No	<ul style="list-style-type: none"> - Excellent Unity Gain Tracking Error - Excellent THD 	High Performance Audio Circuits "Hi-Fi Commercial Quality"
NE/SA572	6-2V	6mA	16	D, F, N	Both Channels	Fixed 2.5V	100mV _{RMS}	No	<ul style="list-style-type: none"> - Independent Attack & Release time - Good THD - Need an Ext Summing Op Amp 	High Performance Audio Circuits "Hi-Fi Studio Quality"
NE/SA575	3-7V	3-5.5mA	20	D, DK, N	Right Channels	V _{CC} /2	100mV _{RMS}	No	<ul style="list-style-type: none"> - Two uncommitted On-chip Op Amps Available - Low Voltage 	Consumer Audio Audio Circuits "Commercial Quality"
NE/SA576	2-7V	1-3mA*	14	D, N	Right Channels	V _{CC} /2	100mV _{RMS}	No	<ul style="list-style-type: none"> - Low Power - Low External Component Count 	Battery Powered Systems "Commercial Quality"
NE/SA577	2-7V	1-2mA*	14	D, N	Right Channels	V _{CC} /2	10mV to 1mV _{RMS}	No	<ul style="list-style-type: none"> - Low Power - Programmable Unity Gain 	Battery Powered Systems "Commercial Quality"
NE/SA578	2-7V	1-2mA*	16	D, N	Right Channels	V _{CC} /2	10mV to 1mV _{RMS}	Yes (170μA)	<ul style="list-style-type: none"> - Low Power - Programmable Unity Gain - Power Down - Mute Function Summing Capability (DTMF) - 600Ω Drive Capability 	Battery Powered Systems "Commercial Quality"

NOTE: NE/SA5750 and SA5752/5753 are also Excellent Audio Processor Components for High Performance Cordless and Cellular Applications that include the Companding Function

*I_{CC} varies with V_{CC}

Packages include: NE: 0 to 70°C; SA: -40 to +85°C; N: Plastic DIP; D: Plastic SO; F: Ceramic DIP; DK: SSOP (Shrink Small Outline Package)

Applications include: Cordless Phones, Cellular Phones, Wireless Mics, Modems, Consumer Audio and Two-Way Communications.