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Analog Devices 5B Series Model Definitions

Part Number	Model	Input Range	Output Range
5B30	5B30-01	-10 mV to +10 mV	-5 V to +5 V
	5B30-02	-50 mV to +50 mV	-5 V to +5 V
	5B30-03	-100 mV to +100 mV	-5 V to +5 V
	5B30-04	-10 mV to +10 mV	0 V to +5 V
	5B30-05	-50 mV to +50 mV	0 V to +5 V
	5B30-06	-100 mV to +100 mV	0 V to +5 V
	5B30-Custom	*	*
Part Number	**Model**	**Input Range**	**Output Range**
5B31	5B31-01	-1 V to +1 V	-5 V to +5 V
	5B31-02	-5 V to +5 V	-5 V to +5 V
	5B31-03	-10 V to +10 V	-5 V to +5 V
	5B31-04	-1 V to +1 V	0 V to +5 V
	5B31-05	-5 V to +5 V	0 V to +5 V
	5B31-06	-10 V to +10 V	0 V to +5 V
	5B31-07	-20 V to +20 V	-5 V to +5 V
	5B31-Custom	*	*
Part Number	**Model**	**Input Range**	**Output Range**
5B32	5B32-01	4 mA to 20 mA	0 V to +5 V
	5B32-02	0 mA to 20 mA	0 V to +5 V
	5B32-Custom	*	*
Part Number	**Model**	**Input Range**	**Output Range**
5B34	5B34-01	**100Ω Platinum, Alpha = 0.00385** -100°C to +100°C (-140°F to +212°F)	0 V to +5 V
	5B34-02	0°C to +100°C (+32°F to 212°F)	0 V to +5 V
	5B34-03	0°C to +200°C (+32°F to 392°F)	0 V to +5 V
	5B34-04	0°C to +600°C (+32°F to 1112°F)	0 V to +5 V
	5B34-C-01	**10Ω Copper, Alpha = 0.004274** 0°C to +120°C (10Ω@ 0°C) (+32°F to +248°F)	0 V to +5 V
	5B34-C-02	0°C to +120°C (10Ω@ 25°C) (+32°F to +248°F)	0 V to +5 V
	5B34-N-01	**120Ω Nickel, Alpha = 0.00672** 0°C to +300°C (+32°F to +572°F)	0 V to +5 V
	5B34-Custom	*	*

Part Number	Model	Input Range	Output Range
5B35	5B35-01	**100Ω Platinum, Alpha = 0.00385** -100°C to +100°C (-148°F to +212°F)	0 V to +5 V
	5B35-02	0°C to +100°C (+32°F to 212°F)	0 V to +5 V
	5B35-03	0°C to +200°C (+32°F to 392°F)	0 V to +5 V
	5B35-04	0°C to +600°C (+32°F to 1112°F)	0 V to +5 V
	5B35-05	-100°C to +200°C (-148°F to +392°F)	0 V to +5 V
	5B35-C-01	**10Ω Copper, Alpha = 0.004274** 0°C to +120°C (10Ω@ 0°C) (+32°F to +248°F)	0 V to +5 V
	5B35-C-02	0°C to +120°C (10Ω@25°C) (+32°F to +248°:F)	0 V to +5 V
	5B35-N-01	**120Ω: Nickel, Alpha = 0.00672** 0°C to +300°C (+32°F to +572°F)	0 V to +5 V
	5B35-Custom	*	*

Part Number	Model	Input Range	Output Range
5B36	5B36-01	0Ω to 100Ω	0 V to +5 V
	5B36-02	0Ω to 500Ω	0 V to +5 V
	5B36-03	0Ω to 1 kΩ	0 V to +5 V
	5B36-04	0Ω to 10 kΩ	0 V to +5 V
	5B36-Custom	*	*

Part Number	Model	Input Range	Output Range
5B37	5B37-J-01	-100°C to +760°C (-148°F to +1400°F)	0 V to +5 V
	5B37-K-02	-100°C to +1350°C (-148°F to +2462°F)	0 V to +5 V
	5B37-T-03	-100°C to +400°C (-148°F to +752°F)	0 V to +5 V
	5B37-E-04	0°C to +900°C (+32°F to +1652°F)	0 V to +5 V
	5B37-R-05	0°C to +1750°C (+32°F to +3182°F)	0 V to +5 V
	5B37-S-05	0°C to +1750°C (+32°F to +3182°F)	0 V to +5 V
	5B37-B-06	0°C to +1800°C (+32°F to +3272°F)	0 V to +5 V
	5B37-N-08	0°C to +1300°C (+32°F to +2372°F)	0 V to +5 V
	5B37-Custom	Type J, K, T, E, R, S, B, N, C	*

Part Number	Model	Bridge Range	Output Range	Excitation	Sensitivity	Input Bridge Type
5B38	5B38-02	300Ω to 10 kΩ	-5 V to +5 V	+10.0V	3 mV/V	Full Bridge
	5B38-04	300Ω to 10 kΩ	-5 V to +5 V	+10.0V	3 mV/V	Half Bridge

	5B38-05	300Ω to 10 kΩ	-5 V to +5 V	+10.0V	2 mV/V	Full Bridge
	5B38-Custom	300Ω to 10 kΩ	-5 V to +5 V	+10.0V	*	*

Part Number	Model	Input Range	Output Range
5B39	5B39-01	0 V to +5 V	4 mA to 20 mA
	5B39-02	-5 V to +5 V	4 mA to 20 mA
	5B39-03	0 V to +5 V	0 mA to 20 mA
	5B39-04	-5 V to +5 V	0 mA to 20 mA

Part Number	Model	Input Range	Output Range
5B40	5B40-01	-10 mV to +10 mV	-5 V to +5 V
	5B40-02	-50 mV to +50 mV	-5 V to +5 V
	5B40-03	-100 mV to +100 mV	-5 V to +5 V
	5B40-04	-10 mV to +10 mV	0 V to +5 V
	5B40-05	-50 mV to +50 mV	0 V to +5 V
	5B40-06	-100 mV to +100 mV	0 V to +5 V
	5B40-Custom	*	*

Part Number	Model	Input Range	Output Range
5B41	5B41-01	-1 V to +1 V	-5 V to +5 V
	5B41-02	-5 V to +5 V	-5 V to +5 V
	5B41-03	-10 V to +10 V	-5 V to +5 V
	5B41-04	-1 V to +1 V	0 V to +5 V
	5B41-05	-5 V to +5 V	0 V to +5 V
	5B41-06	-10 V to +10 V	0 V to +5 V
	5B41-07	-20 V to +20 V	-5 V to +5 V
	5B41-Custom	*	*

Part Number	Model	Input Range	Output Range
5B42	5B42-01	4 mA to 20 mA V to +1 V	+1 V to +5 V
	5B42-02	4 mA to 20 mA V to +1 V	+2 V to +10 V

Part Number	Model	Input Range	Output Range	Rise/Fall Time	Step Response
5B45	5B45-01	0 Hz to 500 Hz	0 V to +5 V	80 ms	150 ms

	5B45-02	0 Hz to 1 kHz	0 V to +5 V	60 ms	140 ms
	5B45-03	0 Hz to 2.5 kHz	0 V to +5 V	50 ms	130 ms
	5B45-04	0 Hz to 5 kHz	0 V to +5 V	50 ms	130 ms
	5B45-51	0 Hz to 10 kHz	0 V to +5 V	50 ms	130 ms
	5B45-Custom	*	*		

Part Number	Model	Input Range	Output Range	Rise/Fall Time	Step Response
5B46	5B46-01	0 Hz to 25 kHz	0 V to +5 V	15 ms	44 ms
	5B46-02	0 Hz to 50 kHz	0 V to +5 V	7 ms	22 ms
	5B46-03	0 Hz to 100 kHz	0 V to +5 V	4 ms	4 ms
	5B46-Custom	*	*		

Part Number	Model	Input Range	Output Range
5B47	5B47-J-01	0°C to +760°C (+32°F to +1400°F)	0 V to +5 V
	5B47-J-02	-100°C to +300°C (-148°F to +572°F)	0 V to +5 V
	5B47-J-03	0°C to +500°C (+32°F to +932°F)	0 V to +5 V
	5B47-K-04	0°C to +1000°C (+32°F to +1832°F)	0 V to +5 V
	5B47-K-05	0°C to +500°C (+32°F to +932°F)	0 V to +5 V
	5B47-T-06	-100°C to +400°C (-148°F to +752°F)	0 V to +5 V
	5B47-T-07	0°C to +200°C (+32°F to +392°F)	0 V to +5 V
	5B47-E-08	0°C to +1000°C (+32°F to +1832°F)	0 V to +5 V
	5B47-R-09	+500°C to +1750°C (+932°F to +3182°F)	0 V to +5 V
	5B47-S-10	+500°C to +1750°C (+932°F to +3182°F)	0 V to +5 V
	5B47-B-11	+500°C to +1800°C (+932°F to +3272°F)	0 V to +5 V
	5B47-Custom	Type J, K, T, E, R S, B, N	*

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