

User-selectable Options (Refer to Figure 3)

Component pads are included to enable a variety of user selectable circuits to be added to the amplifier differential inputs, the VREF input, and the amplifier feedback loop. A voltage divider and filter option can be added to establish a power supply tracking common mode reference at the VREF input, or a coaxial connection to the amplifier FB+ pin can be made at the FB+ BNC connector. The differential inputs have additional resistor placements for adding input attenuation, or to establish input DC offsets through the VREF pin.

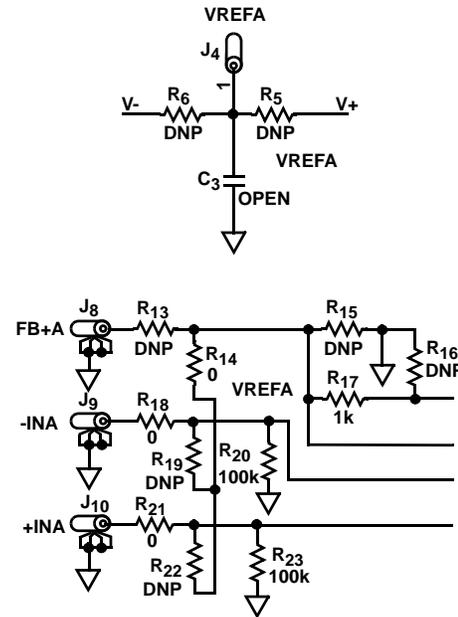
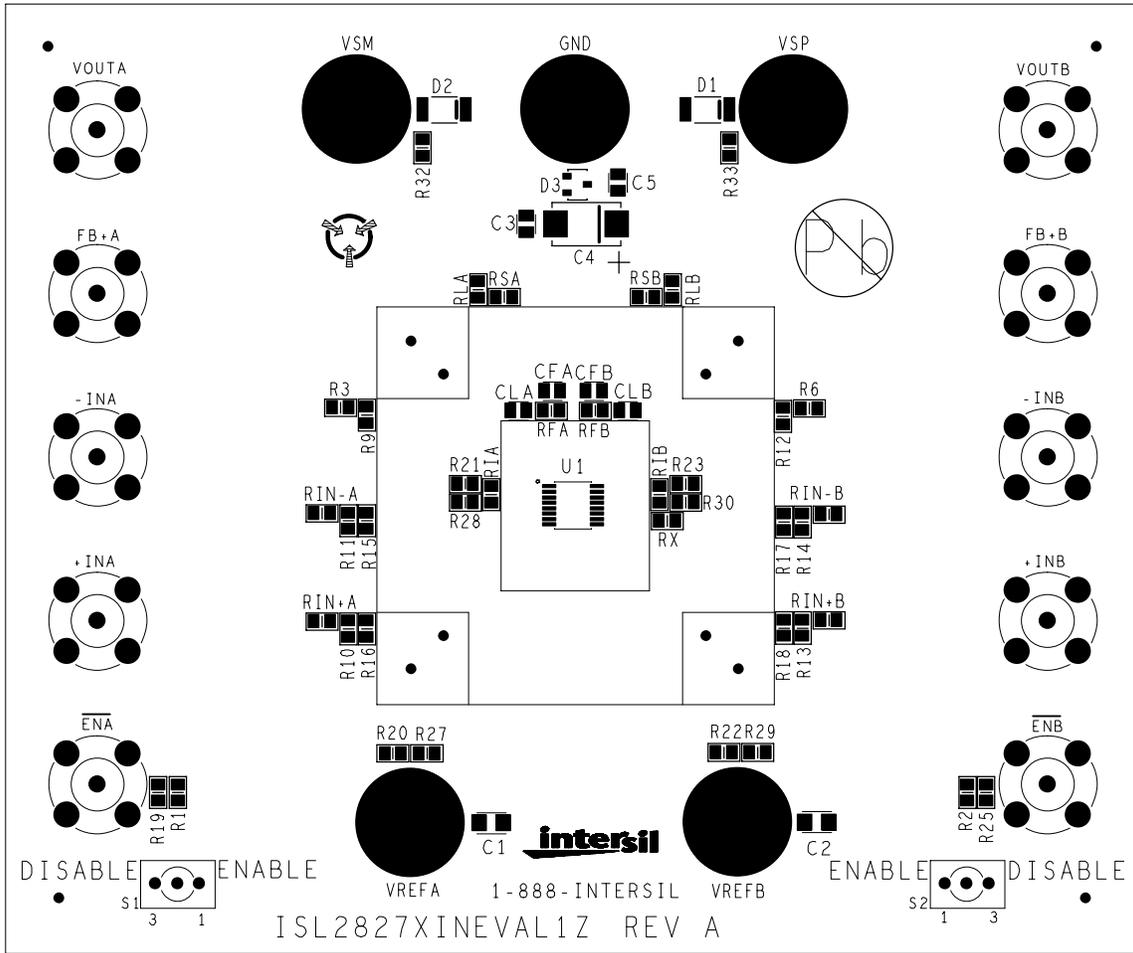


FIGURE 3. COMPONENT-SELECTABLE OPTIONS

ISL2827xINEVAL1Z Components Parts List

DEVICE #	DESCRIPTION	COMMENTS
C ₃ , C ₅	CAP, SMD, 0805, 0.1µF, 25V, 10%, X7R, ROHS	Power Supply Decoupling
C _{FA} , C _{FB} , C _{LA} , C _{LB}	CAP, SMD, 0805, DNP-PLACE HOLDER, ROHS	Optional Amplifier Feedback Caps Not Populated
C ₁ , C ₂	CAP, SMD, 1206, 1µF, 25V, 10%, X7R, ROHS	Power Supply Decoupling
C ₄	CAP-TANTALUM, SMD, D, 10µF, 35V, 10%, LOW ESR, ROHS	Optional VREF Filter Not Populated
D ₁ , D ₂	DIODE-RECTIFIER, SMD, MELF, 2 Ld, 50V, 1A, GPP, ROHS	Reverse Power Protection
U ₁	ISL28270FAZ or ISL28271FAZ or ISL28272FAZ or ISL28273FAZ INSTRUMENTATION AMP, 16P, QSOP, ROHS	
R ₃₂ , R ₃₃ , R _{IN+A} , R _{IN+B} , R _{IN-A} , R _{IN-B} , R _{SA} , R _{SB}	RES, SMD, 0805, 0Ω, 1/8W, TF, ROHS	0Ω User Selectable Resistors
R _{IA} , R _{IB}	RES, SMD, 0805, 1k, 1/8W, 1%, TF, ROHS	R _I Gain Resistors
R ₁ , R ₂	RES, SMD, 0805, 10k, 1/8W, 1%, TF, ROHS	ENABLE Pull-up Resistors
R ₁₅ to R ₁₈	RES, SMD, 0805, 100k, 1/10W, 1%, TF, ROHS	
R ₉ , R ₁₂ , R ₂₀ , R ₂₂ , R ₂₇ , R ₂₉	CAP, SMD, 0805, DNP-PLACE HOLDER, ROHS	User Selectable Resistors Not Populated
R _{FA} , R _{FB} (ISL28271, ISL28273)	RES, SMD, 0805, 9.09k, 1/8W, 1%, TF, ROHS	R _F Gain Resistors - ISL28271, ISL28272
R _{FA} , R _{FB} (ISL28270, ISL28272)	RES, SMD, 0805, 100k, 1/8W, 1%, TF, ROHS	R _F Gain Resistors - ISL28270
R ₃ , R ₆ , R ₁₀ , R ₁₁ , R ₁₃ , R ₁₄ , R ₁₉ , R ₂₁ , R ₂₃ , R ₂₅ , R ₂₈ , R ₃₀ , R _{LA} , R _{LB} , R _X	RES, SMD, 0805, DNP-PLACE HOLDER, ROHS	User Selectable Resistors Not Populated
S ₁ , S ₂	SWITCH-SEALED MINI TOGGLE, TH, 3P, SP, ON/NONE/ON, GOLD	Enable/Disable Select Switches

ISL2827xINEVAL1Z Top View



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ISL2827xINEVAL1Z Schematic Diagram

