The A250F/NF is a high density version of the Amptek A250 Charge Sensitive Preamplifier. The input FET is not included and must be added externally.

NOTES

1. The internal feedback resistor $R_f = 1 \, \text{G}\Omega$.

2. The internal feedback capacitor $C_f = 0.25 \, \text{pF}$
   Sensitivity (gain) = 175 mV/MeV (Si)
   $4 \, \text{V}/\text{pC}$
   $0.64 \, \mu\text{V/electron}$

3. For lower sensitivity applications, $C_f$ can be increased externally.

4. The external 1 kΩ resistor from Pin 2 to Pin 5 provides the FET with a drain current of $I_{DS} = 2.75 \, \text{mA}$.
   $I_{DS}$ can be increased by reducing $R < 1 \, \text{k}\Omega$

Please refer to the A250 specifications for further information.

A250F/NF
MECHANICAL DIMENSIONS