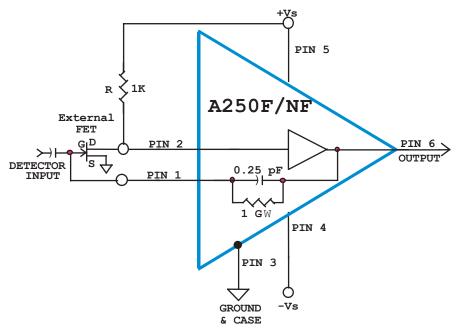


CHARGE SENSITIVE PREAMPLIF

A250F/NF

Single In-line Package (SIP)

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.



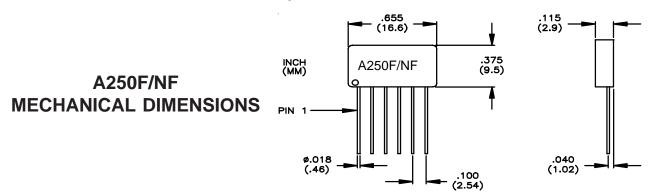
A250F/NF PIN CONFIGURATION

Pin 1	Feedback. Must be connected to the Gate of the FET.
Pin 2	Input. Must be connected to the Drain of the FET.
Pin 3	Ground & Case
Pin 4	-Vs (-6 V Typical)
Pin 5	+Vs (+6 V Typical)
Pin 6	Output

NOTES

- 1. The internal feedback resistor $R_f = 1 G\Omega$.
- 2. The internal feedback capacitor $C_f = 0.25 \ pF$ Sensitivity (gain) = 175 mV//MeV (Si) 4 V/pC 0.64 μ V/electron
- 3. For lower sensitivity applications, C_f can be increased externally.
- 4. The external 1 k Ω resistor from Pin 2 to Pin 5 provides the FET with a drain current of I_{DS} = 2.75 ma. I_{DS} can be increased by reducing R < 1 k Ω .

Please refer to the A250 specifications for further information.



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