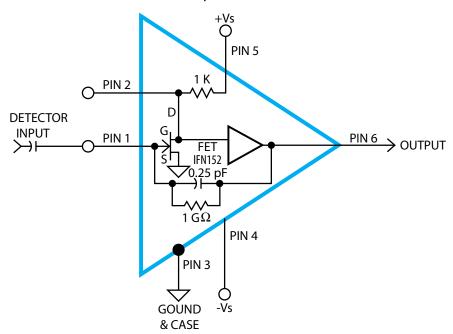


CHARGE SENSITIVE PREAMPLIFIER



Single In-line Package (SIP)

The A250F is a high density version of the Amptek A250 Charge Sensitive Preamplifier. The A250F includes the input FET (IFN152).



A250F PIN CONFIGURATION

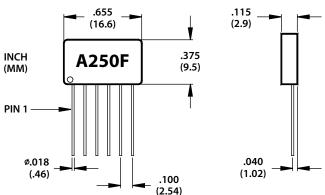
Pin 1	Input
Pin 2	FET Drain
Pin 3	Ground & Case
Pin 4	-Vs (-6 V Typical)
Pin 5	+Vs (+6 V Typical)
Pin 6	Output

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 $\mu\text{V/electron}$
- 3. For lower sensitivity applications, C_f can be increased externally.
- 4. The internal 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 adding an external resistor (R < 1 k Ω) from Pin 2 to Pin 5.

Please refer to the A250 specifications for further information.

A250F MECHANICAL DIMENSIONS



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