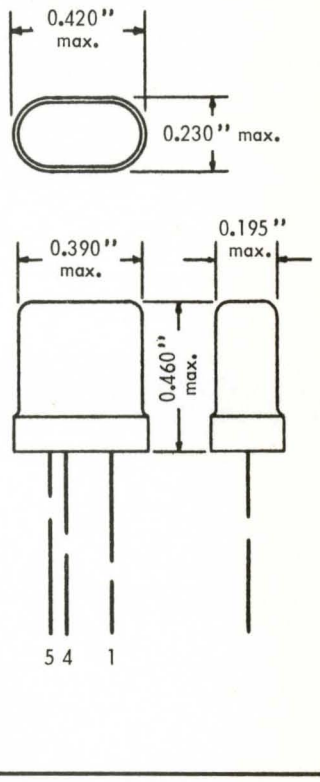
Excellence in Electronics

TYPE 2N112

(CK760)

The 2N112 is a hermetically sealed PNP fused junction transistor intended primarily for use in high frequency applications. The tinned flexible leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard inline subminiature sockets may be used by cutting the leads to a suitable length.



MECHANICAL DATA

CASE: Metal and Glass

BASE: None (0.016" tinned flexible leads. Length: 1.5" min.
Spacing: Leads 1-4 0.144" center-to-center;
Other Leads 0.048" center-to-center)

TERMINAL CONNECTIONS:

Lead 1 Collector
Lead 4 Base
Lead 5 Emitter

MOUNTING POSITION: Any

ELECTRICAL DATA

RATINGS - ABSOLUTE MAXIMUM VALUES:

Collector Voltage ($\hat{V}_c$)	-6 volts
Peak Collector Voltage (V_c)♦	-10 volts
Collector Current	-5 ma.
Collector Dissipation *	
Emitter Current	5 ma.
Ambient Temperature	85 °C

AVERAGE CHARACTERISTICS: (at 27° C)

Collector Voltage	-6 volts
Emitter Current	1.0 ma.
Extrinsic Base Resistance	75 ohms
Base Current Amplification Factor	40
Cut-off Current	1.0 μa.
Alpha Cut-off	5 Mc
Collector Capacitance	14 μμf.
IF Gain (see fig. 1)▲	32 db.
IF Input Impedance (see fig. 1)▲	600 ohms
IF Output Impedance (see fig. 1)▲	25 kilohms

▲ *IF frequency = 455 kc.*

♦ *Collector voltage Vc_e at which I_c rises to 2 ma. in common emitter circuit with base lead connected directly to emitter lead. Ambient temperature = 25° C.*

* *This is a function of maximum ambient temperature (T_A) expected. It is approximately equal to $1.6(85^\circ C - T_A)$ milliwatts.*

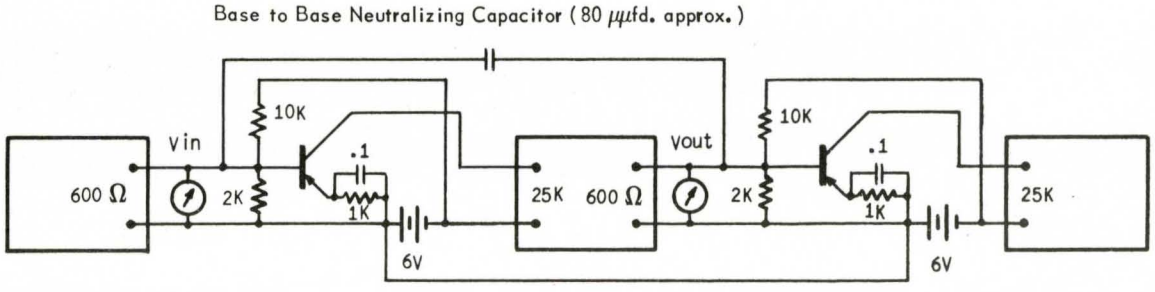


Fig. 1

TEST FOR MEASUREMENT OF IF GAIN

Average gain, as specified; includes 3 db transformer losses. IF transformers may be a tapped primary transformer the Automatic EXO-3015. Untapped primaries may be used provided they are of sufficiently high Q and tuned with at least 500 μμfds.

Tentative Data