



Excellence in Electronics

TYPE CK727

The CK727 is a PNP junction transistor intended for use in low level audio applications where low noise factor is of prime importance. 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: Plastic and Glass
BASE: None (0.016" tinned flexible leads. Length: 1.5" min. Spacing: 0.08" center-to-center)
TERMINAL CONNECTIONS: (Red Dot is adjacent to lead 1)
Lead 1 Collector
Lead 2 Base
Lead 3 Emitter
WEIGHT: 0.025 ounces
MOUNTING POSITION: Any

ELECTRICAL DATA

RATINGS - ABSOLUTE MAXIMUM VALUES:

Table with 2 columns: Parameter and Value. Includes Collector Voltage (-6 volts), Collector Current (-10 ma.), Collector Dissipation * (10 ma.), Emitter Current (70 °C), and Ambient Temperature.

CHARACTERISTICS: (at 27°C)

Table with 2 columns: Parameter and Value. Includes Collector Voltage (-1.5 volts), Collector Current (-0.5 ma.), Current Amplification Factor (min.) (25), Collector Resistance (min.) (1.0 meg.), Collector Cutoff Current (max.) (12 µa.), and Noise Factor (max.) (12 db).

AVERAGE CHARACTERISTICS - COMMON EMITTER CIRCUIT: (at 27°C)

Table with 2 columns: Parameter and Value. Includes Collector Voltage (-1.5 volts), Collector Current (-0.5 ma.), Generator Resistance (1000 ohms), Load Resistance (20,000 ohms), Gain (36 db), and Noise Factor (10 db).

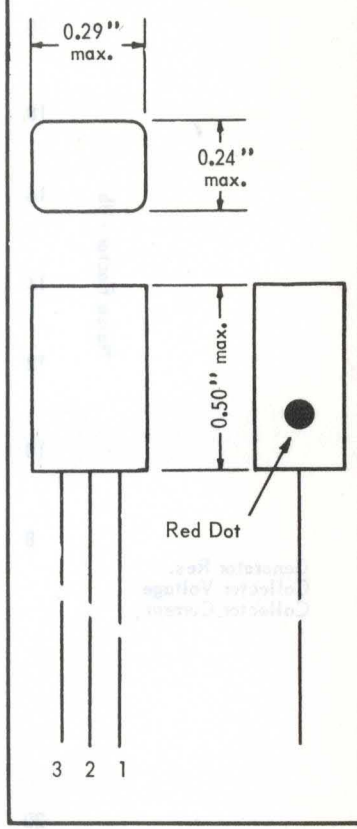
AVERAGE CHARACTERISTICS - COMMON BASE CIRCUIT: (at 27°C)

Table with 2 columns: Parameter and Value. Includes Collector Voltage (-1.5 volts), Collector Current (-0.5 ma.), Generator Resistance (100 ohms), Load Resistance (0.2 meg.), Gain (28 db), and Noise Factor (10 db).

AVERAGE CHARACTERISTICS - COMMON COLLECTOR CIRCUIT: (at 27°C)

Table with 2 columns: Parameter and Value. Includes Collector Voltage (-1.5 volts), Collector Current (-0.5 ma.), Generator Resistance (0.1 meg.), Load Resistance (10,000 ohms), Gain (14 db), and Noise Factor (25 db).

- With zero emitter current in grounded base connection.
In a one-cycle bandwidth at 1000 cycles.
Measured under conditions described in 'Common Emitter Circuit'.
This is a function of maximum ambient temperature (TA) expected. It is approximately equal to 4 (70° C - TA) milliwatts.

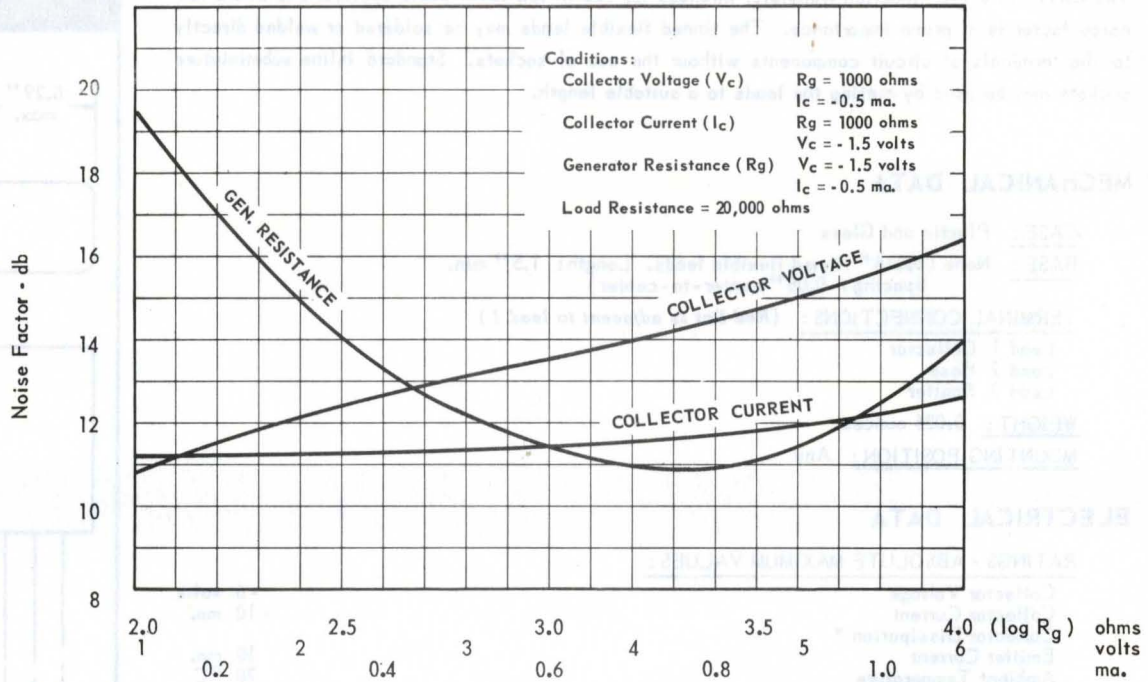


Tentative Data

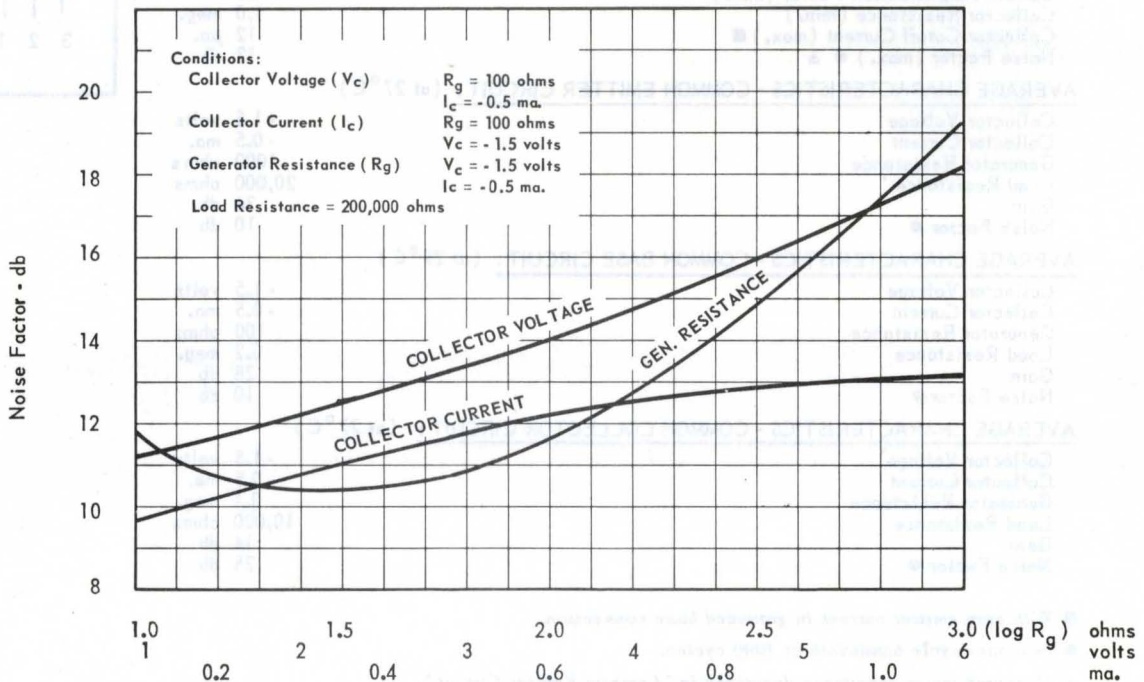


GERMANIUM TRANSISTOR

AVERAGE NOISE CHARACTERISTICS
Common Emitter



AVERAGE NOISE CHARACTERISTICS
Common Base



RAYTHEON MANUFACTURING COMPANY

RECEIVING AND CATHODE RAY TUBE OPERATIONS

