NTE160
Germanium PNP Transistor
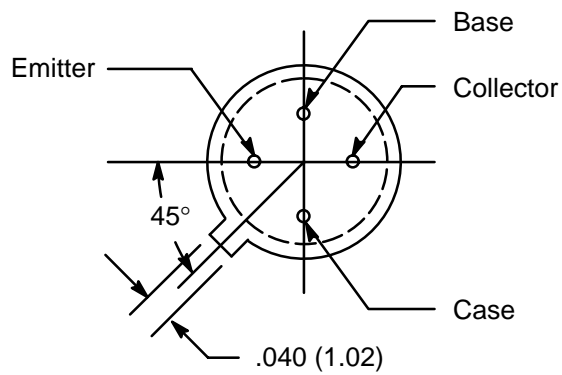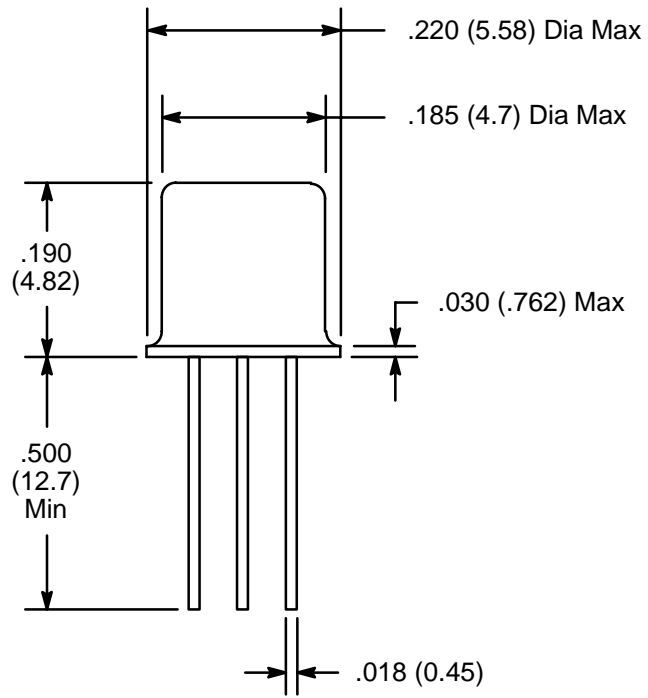## RF–IF Amp, FM Mixer OSC

Description:

The NTE160 is a germanium mesa PNP transistor in a TO72 metal case designed for use as a preamplifier mixer and oscillator up to 900MHz.

Absolute Maximum Ratings:

Collector–Emitter Voltage ($V_{BE} = 0$), V_{CES} 20V
Collector–Emitter Voltage, ($I_B = 0$), V_{CEO} 16V
Emitter–Base Voltage ($I_C = 0$), V_{EBO} 0.3V
Collector Current, I_C 10mA
Total Power Dissipation ($T_A = +45°C$), P_{tot} 60mW
Operating Junction Temperature, T_J . . . . +90°C
Storage Temperature Range, T_{stg} . . . . −30° to +75°C
Thermal Resistance, Junction–to–Case, R_{thJC} . . . . 400°C/W max
Thermal Resistance, Junction–to–Ambient, R_{thJA} . . . . 750°C/W max

Electrical Characteristics: ($T_C = +25°C$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CES}	$V_{CE} = -20V$, $V_{BE} = 0$	–	–	–8	μA
	I_{CEO}	$V_{CE} = -15V$, $I_B = 0$	–	–	–500	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = -0.3V$, $I_C = 0$	–	–	–100	μA
Base–Emitter Voltage	V_{BE}	$I_C = -2mA$, $V_{CE} = -10V$	–	–350	–	mV
		$I_C = -5mA$, $V_{CE} = -5V$	–	–400	–	mV
DC Current Gain	h_{FE}	$I_C = -2mA$, $V_{CE} = -10V$	–	50	–	
		$I_C = -5mA$, $V_{CE} = -5V$	–	42	–	
Transition Frequency	f_T	$I_C = -2mA$, $V_{CE} = -10V$, f = 100MHz	–	700	–	MHz
Reverse Capacitance	$-C_{re}$	$I_C = -2mA$, $V_{CE} = -10V$, f = 450kHz	–	0.23	–	pF
Noise Figure	NF	$I_C = -2mA$, $V_{CE} = -10V$, $R_g = 60Ω$, f = 800MHz	–	5	6	dB
Power Gain	G_{pb}	$I_C = -2mA$, $V_{CE} = -10V$, $R_L = 2kΩ$, f = 800MHz	11	14	–	dB

.220 (5.58) Dia Max

.185 (4.7) Dia Max

.190
(4.82)

.030 (.762) Max

.500
(12.7)
Min

.018 (0.45)

Base

Emitter

Collector

45°

Case

.040 (1.02)

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for nte *manufacturer:*

Other Similar products are found below :

747 797 868 1724 NEH680M50FE NEHH1.0M450CB NTE48 NTE526A 228A 231 954 2023 47-20848-R 510 R04-11A30-120 04-SLPE3750A 5615 591 7056 NTE5710 7448 NEH.10M50AA NEH2.2M63AA NEH330M35DD NEH33M10AA NEV.22M100AA TP0006-100 NTE182 NTE528 NTE542 NTE74154 WH20-02-25 04-SCBW25L-BK 04-SCBW32L-BK 04-SCW10C-BK 04-SCBW19L-GR 04-SCW19L-WH 04-SCW19L-OR 04-SCW38L-WH 04-SCBW50L-OR 04-SCBW50L-GR 04-SCW10C-GR 04-SCW10C-OR 04-SCBW32L-GR 04-SCBW32L-WH 04-SCBW32L-OR 04-SCBW6C-WH 04-SCBW6C-GR 04-SCBW6C-OR 04-SCBW25L-GR