

PULSE-JET ENGINE CHARACTERISTICS										
MODEL DESIGNATION (USAF & MFR) MANUFACTURER	AIRCRAFT INSTALLED IN	DESCRIPTION	ENGINE RATINGS				FUEL (GRADE)	LENGTH (INCHES)	DIAMETER (INCHES)	WEIGHT (LBS)
			THRUST (LBS)	S.F.C. (LBS/HP-HR)	VELOCITY (KNOTS)	ALTITUDE (FEET)				
PJ31-F-1 Ford	Buzz Bomb	A copy (dimensional of the German robot bomb engine) of an intermittent or aeropulse engine of the jet propulsion type. This is the first engine of this type manufactured for the Air Force. Project completed.	900	4.00	0	SL	AN-F-48	144.0	22.4	300
XPJ33-GN-1 Giannini		A high frequency intermittent or Pulse-jet engine similar to the German V-1 Buzz Bomb engine. Development terminated after laboratory tests were conducted. Project completed.	1500	3.25	0	SL	"	100.0	23.0	350
XPJ35-GN-1 Giannini	Subsonic Missiles	A high frequency Pulse-jet engine of 7" basic diameter. Primarily intended as a development and research engine. Design configuration being changed to obtain optimum high speed performance. Basic design to be applicable to larger size flight engines. Project completed.	120	3.25	0	SL	"	90.0	7.0	45
XPJ37-GN-1 (7-inch) Giannini	Subsonic Missiles	Utilizes a basic Pulse-jet engine mounted in a shroud and includes fuel metering accessories. Primarily an evaluation of an engine of low specific weight, low fuel consumption and high thrust at speeds up to at least 521 knots.	120	3.00	0	SL	"		"	60
XPJ37-GN-1 (11-inch) Giannini	Subsonic Missiles	A eleven inch shrouded flyable Pulse-jet engine, requiring modification to the existing test stand facilities and construction of preliminary development work to reduce the fuel rate and increase the thrust per unit of frontal area	$\begin{cases} 280 \\ 500 \end{cases}$	$\begin{cases} 2.90 \\ 3.60 \end{cases}$	$\begin{cases} 0 \\ 495 \end{cases}$	$\begin{cases} SL \\ SL \end{cases}$	"	84.3	11.0	100
XPJ39-GN-1 Giannini	Q-1	A 11-inch diameter pulsating jet engine designed to operate between Mach Numbers 0 to 1.	*Net internal thrust Not determined					"	"	140