

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

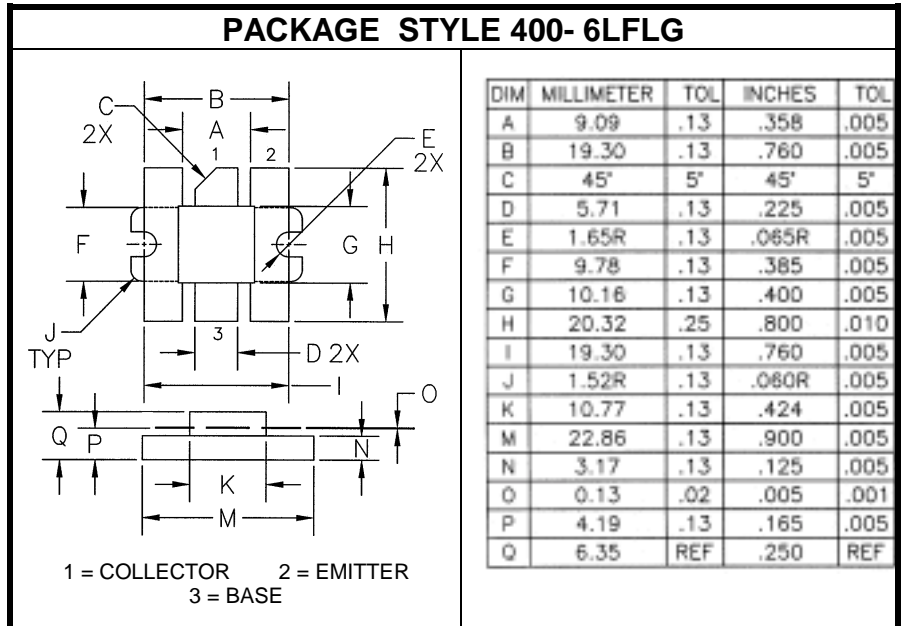
The **ASI UMIL100ASQ** is Designed for Class AB Amplifier Applications in 225 to 400 MHz Military Radios.

FEATURES INCLUDE:

- Internal Input Matching
- Gold Metalization
- Emitter Ballasting

MAXIMUM RATINGS

I_C	20 A
V_{CB}	65 V
P_{DISS}	270 W @ T _C = 25 °C
T_J	-65 °C to +150 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	0.7 °C/W


CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	I _C = 50 mA	31			V
BV_{CES}	I _C = 100 mA	60			V
BV_{CBO}	I _C = 100 mA	60			V
BV_{EBO}	I _E = 5 mA	4.0			V
I_{CBO}	V _{CB} = 30 V			50	mA
h_{FE}	V _{CE} = 5.0 V I _C = 1.0 A	10			---
C_{ob}	V _{CB} = 28 V f = 1.0 MHz		120		pF
P_G η_C	V _{CE} = 28 V P _{OUT} = 100 W f = 400 MHz	7.2	8.5 55		dB %