

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

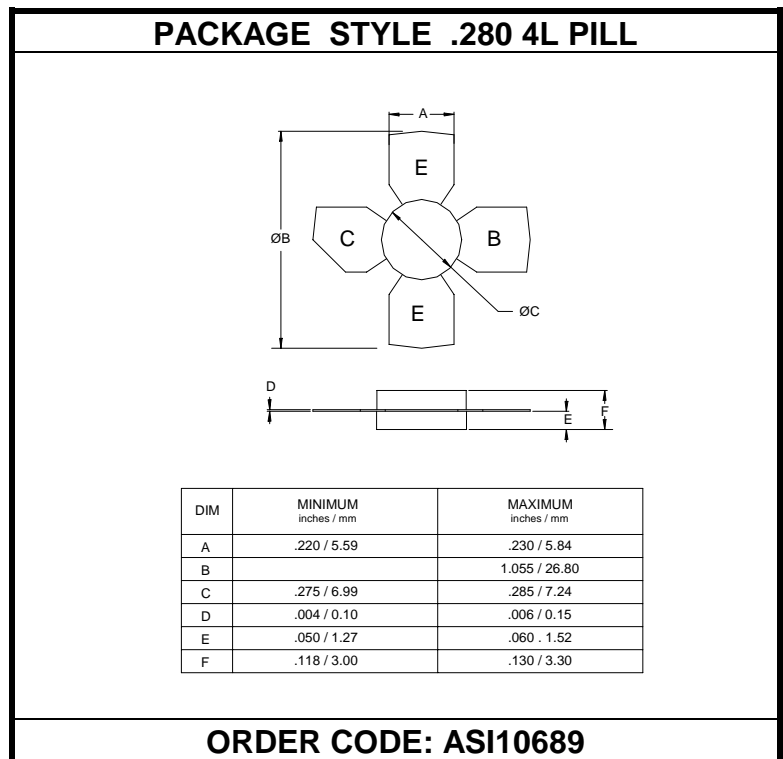
The **ASI UML1SL** is Designed for High Power Class C Amplifier in, 225 to 400 MHz Military Communication Equipment.

FEATURES:

- Class C Operation
- $P_G = 13$ dB at 1.0 W/400 MHz
- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	2.0 A
V_{CB0}	45 V
V_{CEO}	25 V
V_{EBO}	3.5 V
P_{DISS}	31.8 W @ $T_C = 25^\circ\text{C}$
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	20 °C/W


CHARACTERISTICS $T_C = 25^\circ\text{C}$

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CB0}	$I_C = 1.0$ mA		45			V
BV_{CEO}	$I_C = 20$ mA		24			V
BV_{EBO}	$I_E = 0.25$ mA		3.5			V
I_{CB0}	$V_{CB} = 28$ V				0.45	mA
h_{FE}	$V_{CE} = 5.0$ V	$I_C = 100$ mA	15		120	---
C_{ob}	$V_{CB} = 28$ V	$f = 1.0$ MHz			5.0	pF
P_G η_D	$V_{CC} = 28$ V	$P_{OUT} = 1.0$ W	13	60		dB %