

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

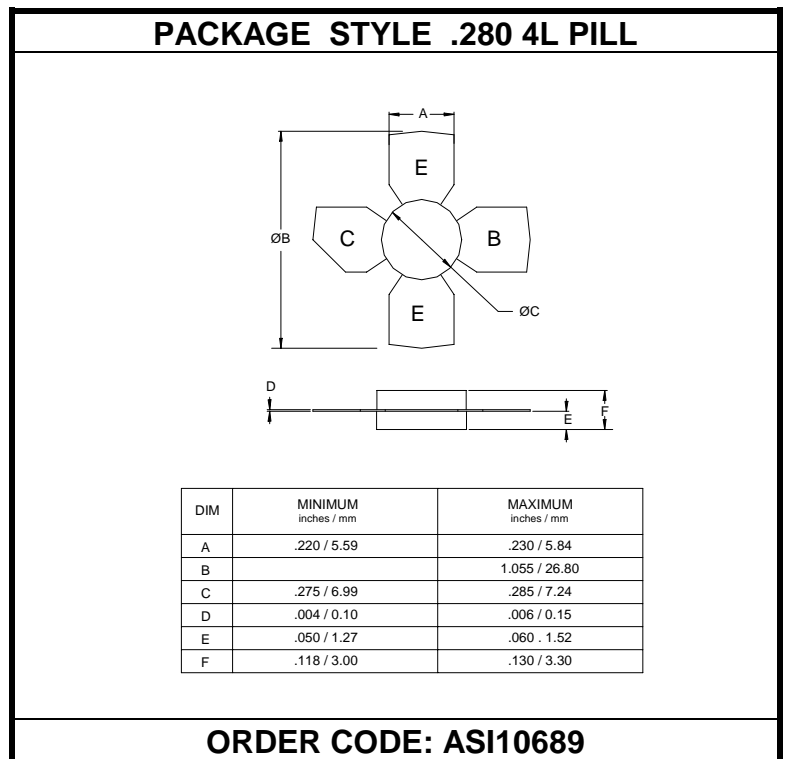
The **ASI UML1SL** is Designed for High Power Class C Amplifier in, 225 to 400 MHz Military Communication Equipment.

**FEATURES:**

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

**MAXIMUM RATINGS**

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


**CHARACTERISTICS**  $T_C = 25^\circ C$ 

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CBO}$	$I_C = 1.0$ mA		45			V
$BV_{CEO}$	$I_C = 20$ mA		24			V
$BV_{EBO}$	$I_E = 0.25$ mA		3.5			V
$I_{CBO}$	$V_{CB} = 28$ 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
$P_G$ $\eta_D$	$V_{CC} = 28$ V	$P_{OUT} = 1.0$ W	13	60		dB %