

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

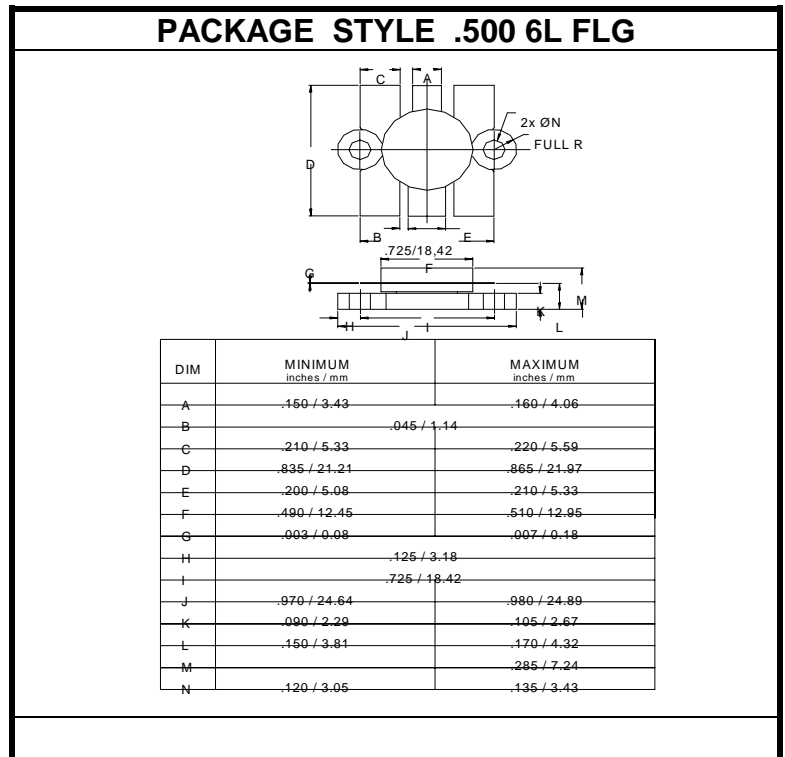
The **ASI CM20-12A** is Designed for Class C, FM Land Mobile Applications up to 470 MHz.

FEATURES:

- Internal Input Matching Network
- $P_G = 6.2$ dB at 20 W/470 MHz
- **Omnigold™** Metalization System
- Common Emitter Configuration

MAXIMUM RATINGS

I_C	4.8 A
V_{CBO}	36 V
V_{CEO}	16 V
V_{EBO}	4.0 V
P_{DISS}	70 W @ $T_C = 25$ °C
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	2.5 °C/W


CHARACTERISTICS $T_C = 25$ °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	$I_C = 50$ mA	16			V
BV_{CES}	$I_C = 10$ mA	36			V
BV_{EBO}	$I_E = 5.0$ mA	4.0			V
I_{CES}	$V_{CE} = 12.5$ V			5.0	mA
h_{FE}	$V_{CE} = 5.0$ V $I_C = 1.0$ A	10		150	---
C_{OB}	$V_{CB} = 12.5$ V $f = 1.0$ MHz			85	pF
P_G	$V_{CC} = 12.5$ V $P_{OUT} = 20$ W $f = 470$ MHz	6.2			dB
η_C		60			%