

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

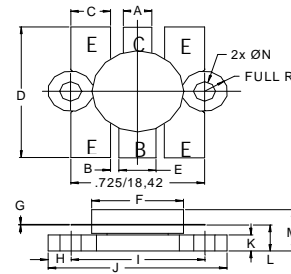
The **C2M60-28** is Designed for Class A, B and C Power Amplifier Applications in Military UHF Radios.

**FEATURES:**

- $P_G = 10$  dB Typical at 70 W/400 MHz
- $\infty$  Load VSWR at Rated Conditions
- **Omnigold™** Metallization System

**MAXIMUM RATINGS**

$I_C$	8.0 A
$V_{CB}$	60 V
$P_{DISS}$	220 W @ $T_C = 25^\circ\text{C}$
$T_J$	$-55^\circ\text{C}$ to $+200^\circ\text{C}$
$T_{STG}$	$-55^\circ\text{C}$ to $+200^\circ\text{C}$
$\theta_{JC}$	$0.8^\circ\text{C/W}$

**PACKAGE STYLE .500"6L FLG**


DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.150 / 3.43	.160 / 4.06
B	.045 / 1.14	
C	.210 / 5.33	.220 / 5.59
D	.835 / 21.21	.865 / 21.97
E	.200 / 5.08	.210 / 5.33
F	.490 / 12.45	.510 / 12.95
G	.003 / 0.08	.007 / 0.18
H	.125 / 3.18	
I	.725 / 18.42	
J	.970 / 24.64	.980 / 24.89
K	.090 / 2.29	.105 / 2.67
L	.150 / 3.81	.170 / 4.32
M	.285 / 7.24	
N	.120 / 3.05	.135 / 3.43

**ORDER CODE: ASI10799**
**CHARACTERISTICS**  $T_C = 25^\circ\text{C}$ 

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CBO}$	$I_C = 50$ mA	60			V
$BV_{CEO}$	$I_C = 50$ mA	33			V
$BV_{EBO}$	$I_E = 20$ mA	4.0			V
$I_{CBO}$	$V_{CB} = 30$ V			5.0	mA
$h_{FE}$	$V_{CE} = 5.0$ V $I_C = 1.0$ A	20		120	---
$C_{OB}$	$V_{CB} = 28$ V $f = 1.0$ MHz			75	pF
$P_G$	$V_{CC} = 28$ V $P_{OUT} = 70$ W $f = 400$ MHz	9.0	10.0		dB
$\eta_c$		50	60		%