

# UHF POWER MOSFET

## N-Channel Enhancement Mode

**DESCRIPTION:**

The **UFT5-28SL** is Designed for AM/FM Power Amplifier Applications up to 400 MHz.

**FEATURES:**

- $P_{OUT} = 5.0$  W Typical at 400 MHz
- $\eta_D = 55\%$  Typical at 5 W / 400 MHz
- **Omnigold™** Metalization System

**MAXIMUM RATINGS**

$I_D$	1.25 A
$V_{DSS}$	60 V
$V_{DGR}$	60 V
$V_{GS}$	$\pm 40$ V
$P_{DISS}$	17.5 W @ $T_C = 25^\circ C$
$T_J$	$-65^\circ C$ to $+150^\circ C$
$T_{STG}$	$-65^\circ C$ to $+150^\circ C$
$\theta_{JC}$	10 $^\circ C/W$

**PACKAGE STYLE .280 4L PILL**

DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B		1.055 / 26.80
C	.275 / 6.99	.285 / 7.24
D	.004 / 0.10	.006 / 0.15
E	.050 / 1.27	.060 / 1.52
F	.118 / 3.00	.130 / 3.30

**ORDER CODE: ASI10664**

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

SYMBOL	TEST CONDITIONS			MINIMUM	TYPICAL	MAXIMUM	UNITS
$V_{(BR)DSS}$	$I_{DS} = 5$ mA	$V_{GS} = 0$ V		60			V
$I_{DSS}$	$V_{DS} = 28$ V	$V_{GS} = 0$ V				0.8	mA
$I_{GSS}$	$V_{GS} = 20$ V	$V_{DS} = 0$ V				1.0	$\mu A$
$G_{FS}$	$V_{GS} = 10$ V	$I_D = 250$ mA		.110			mS
$V_{GS(TH)}$	$V_{DS} = 10$ V	$I_D = 10$ mA		1.0		6.0	V
$C_{ISS}$ $C_{OSS}$ $C_{RSS}$	$V_{DS} = 0$ V	$V_{GS} = 0$ V	$f = 1.0$ MHz		8.0 6.5 5.5		pF
$P_G$ $\eta_D$	$V_{DD} = 28$ V $f = 400$ MHz	$I_{DQ} = 50$ mA	$P_{OUT} = 4$ W	14 50	16 55		dB %