

UHF POWER MOSFET

N-Channel Enhancement Mode

DESCRIPTION:

The **UFT5-28SL** is Designed for is Designed for AM/FM Power Amplifier Applications up to 500 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}	± 40 V
P_{DISS}	17.5 W @ $T_C = 25^\circ\text{C}$
T_J	-65°C to $+150^\circ\text{C}$
T_{STG}	-65°C to $+150^\circ\text{C}$
θ_{JC}	10°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 $T_C = 25^\circ\text{C}$

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	μA
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 η_D	$V_{DD} = 28$ V $f = 400$ MHz	$I_{DQ} = 50$ mA	$P_{OUT} = 4$ W	14 50	16 55		dB %