CPH3910

ON Semiconductor®

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N-Channel JFET 25V, 20 to 40mA, 40mS, CPH3

Applications

- · For AM tuner RF amplification
- · Low noise amplifier

Features

- VGDS: -25V max.
 | yfs |: 40mS typ.
 Ciss: 6.0pF typ.
- NF: 2.1dB typ.

Specifications

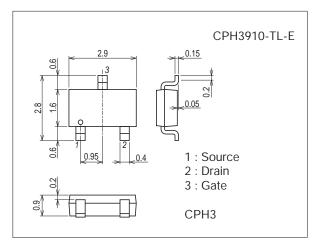
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSX}		25	V
Gate-to-Drain Voltage	V _{GDS}		-25	V
Gate Current	IG		10	mA
Drain Current	ID		50	mA
Allowable Power Dissipation	PD		400	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Package Dimensions

unit : mm (typ) 7015A-007



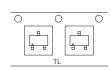
Product & Package Information

• Package : CPH3

• JEITA, JEDEC : SC-59, TO-236, SOT-23

• Minimum Packing Quantity : 3,000 pcs./reel

Packing Type: TL



Marking



Electrical Connection

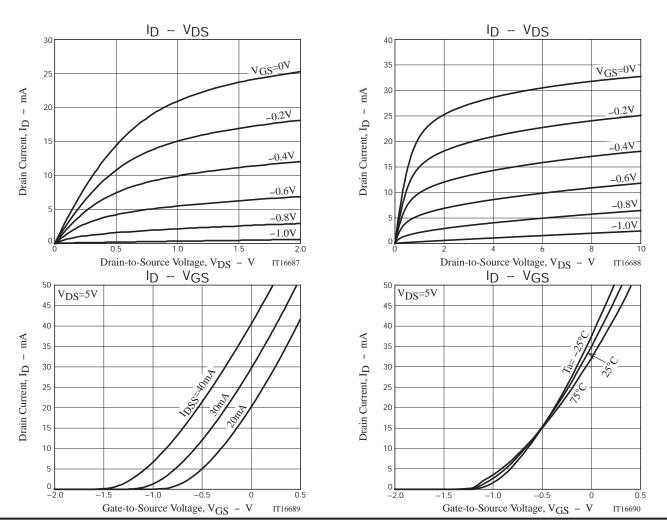


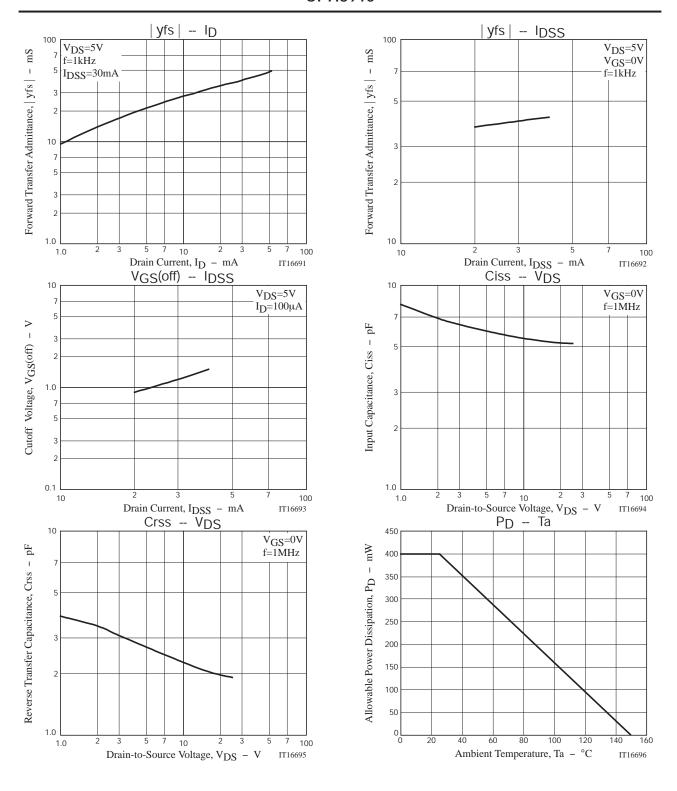
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit	
Farantietei	Symbol Conditions		min	typ	max	Utill	
Gate-to-Drain Breakdown Voltage	V(BR)GDS	IG=-10μA, VDS=0V	-25			V	
Gate Cutoff Current	IGSS	V _{GS} =-10V, V _{DS} =0V			-1.0	nA	
Cutoff Voltage	V _{GS} (off)	V _{DS} =5V, I _D =100μA	-0.6	-1.2	-1.8	V	
Drain Current	IDSS	V _{DS} =5V, V _{GS} =0V	20		40	mA	
Forward Transfer Admittance	yfs	V _{DS} =5V, V _{GS} =0V, f=1kHz	30	40		mS	
Input Capacitance	Ciss	V _{DS} =5V, V _{GS} =0V, f=1MHz		6.0		pF	
Reverse Transfer Capacitance	Crss	V _{DS} =5V, V _{GS} =0V, f=1MHz		2.3		pF	
Noise Figure	NF	V _{DS} =5V, V _{GS} =0V, f=100MHz		2.1	2.8	dB	

Ordering Information

Device	Package	Shipping	memo	
CPH3910-TL-E			Pb Free	



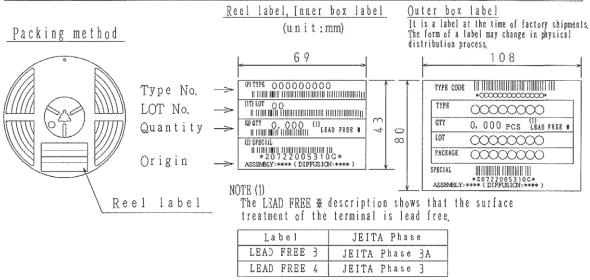


Embossed Taping Specification

CPH3910-TL-E

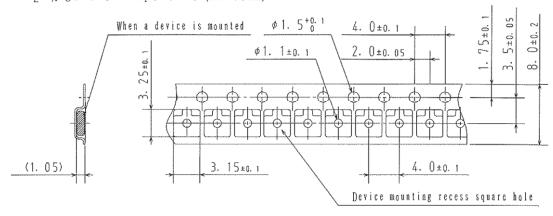
1. Packing Format

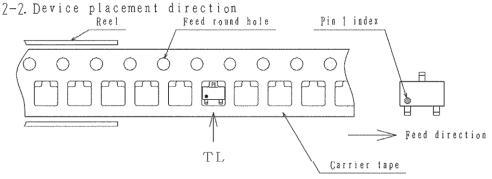
Package Name	Carrier Tape	Maximum Number of devices contained (pcs)				
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
СРНЗ	СРНЗ	3, 000	15, 000	90, 000	5 reels contained	6 inner boxes contained
				E 85 800	Dimensions:mm (external)	Dimensions:mm (external)
	**				183×72×185	440×195×210



2. Taping configuration

2-1. Carrier tape size (unit:mm)

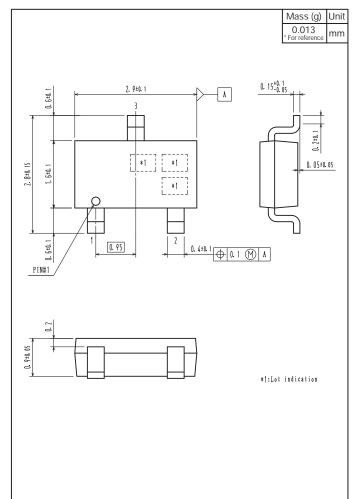




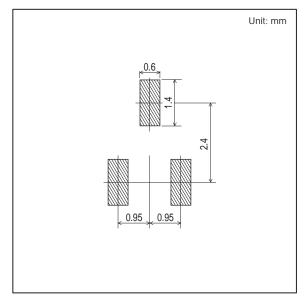
Those with one electrode terminal on the feed hole side ······TL

Outline Drawing

CPH3910-TL-E



Land Pattern Example



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