

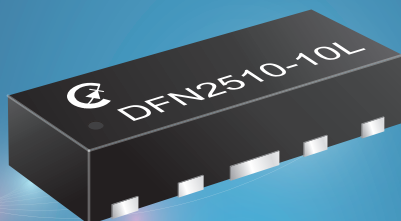


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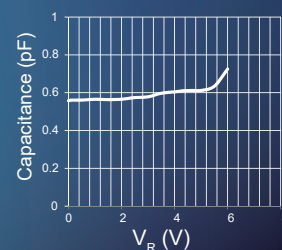
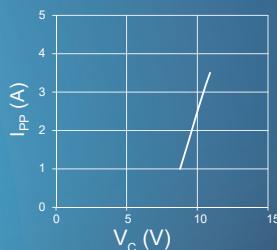
Professional Discrete Semiconductor Manufacturer
分 離 式 元 件 供 應 商 Stock Code: 3675

ESD / EOS Device

ES0P55P5NA Comparison Chart



DFN2510-10L



Application

- Audio & Video Equipment
- Cellular Handsets & Accessories
- Computers & Peripherals
- Portable Electronics
- Communication Systems
- USB 3.1, 3.0, 2.0
- HDMI 2.0, 1.4a, 1.3
- DisplayPort™
- V-by-One®
- Thunderbolt (Light Peak)
- LVDS Interfaces
- Consumer, Mobile
- Tablet PC & External Storage with High Speed Interfaces
- Applications Requiring High ESD Performance In Small Packages
- SATA & eSATA
- IEEE 1394
- PCI Express
- Notebooks
- Protecting High Speed I/O Ports from Electrostatic Discharging (ESD)
- Digital Visual Interface (DVI)

Item	Unit	ES0P55P5NA	L Brand	W Brand	A Brand	S Brand
IEC 61000-4-2 ESD (Contact)	kV	★★★★★ ±24	★★★★☆ ±20	★★★★☆ ±20	★★★☆☆ ±10	★★★★☆ ±12
IEC 61000-4-2 ESD (Air)	kV	★★★★★ ±24	★★★★☆ ±20	★★★★☆ ±20	★★★☆☆ ±15	★★★★☆ ±17
Capacitance @ $V_R=0V$ I/O to GND	pF	★★★☆☆ 0.5@1MHz (Typ.)	★★★★★ 0.2@3GHz (Typ.)	★★★★☆ 0.4@1MHz (Typ.)	★★★☆☆ 0.5@1MHz, $V_R=2.5V$ (Typ.)	★★★☆☆ 0.8@1MHz (Max.)
Capacitance @ $V_R=0V$ I/O to I/O	pF	★★★★★ 0.25@1MHz (Typ.)	☆☆☆☆☆	★★★★★ 0.25@1MHz (Typ.)	☆☆☆☆☆ 0.04@1MHz, $V_R=2.5V$ (Typ.)	★★★★★ 0.3@1MHz (Typ.)
I_{PP} (8/20μs)	A	★★★★☆ 4	★★★☆☆ 2	★★★★☆ 4	★★★☆☆ 3.5	★★★★★ 5
$V_{BR}@1mA$	V	7 (Typ.)	9 (Typ.)	7 ~ 9	6 (Min.)	6 (Min.)
V_{RWM}	V	>5.5	>7	>5	>5	>5
I_R	nA	★★★★★ 3@ $V_R=5V$ (Typ.)	★★★★☆ 50@ $V_R=5V$ (Max.)	★★★★☆ 100@ $V_R=5V$ (Max.)	★★★☆☆ 1500@ $V_R=5V$ (Max.)	★★★☆☆ 1000@ $V_R=5V$ (Max.)
$V_C@I_{PP}=1A$ 8/20μs	V	7 (Typ.)		10 (Max.)		15 (Max.)

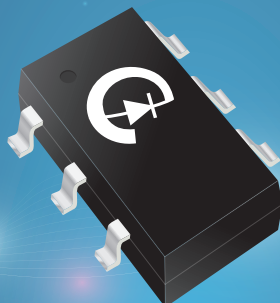


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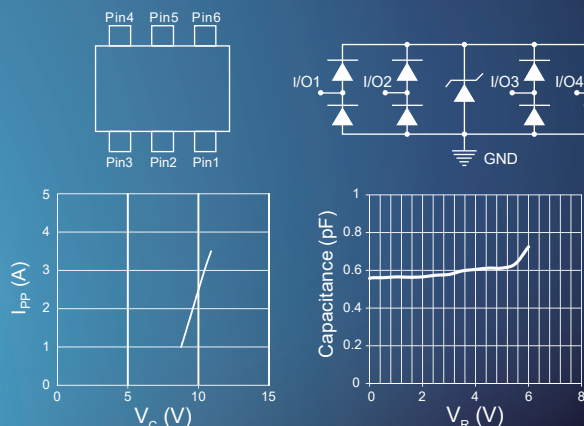
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ESD / EOS Device

ES0P55P5TM Comparison Chart



SOT-23-6



Application

- Audio & Video Equipment
- Cellular Handsets & Accessories
- Computers & Peripherals
- Portable Electronics
- Communication Systems
- Printers
- Wireline & Wireless Telephone Sets
- Set-Top Boxes
- Medical Equipment
- High-Definition Multimedia Interface (HDMI) 1.3 Version
- DisplayPort Interface
- SATA & eSATA Interface
- Digital Visual Interface (DVI)
- USB2.0 Up To 480Mb/s
- IEEE 1394 Up To 3.2 Gb/s
- Ethernet Port :10/100/1000 Mb/s

Item	Unit	ES0P55P5TM	S Brand	N Brand	A Brand
IEC 61000-4-2 ESD (Contact)	kV	★★★★★ ±24	★★☆☆☆ ±8	★★★★☆ >15	★★★★☆☆ ±12
IEC 61000-4-2 ESD (Air)	kV	★★★★★ ±24	★★☆☆☆ ±15	★★★★☆ >15	★★★★☆☆ ±19
Capacitance @ $V_R=0V$ I/O to GND	pF	★★★★★ 0.45@1MHz (Typ.)	★★★★☆☆ 7.5@1MHz, $V_R=3V$ (Typ.)	★★★★☆☆ 200@1MHz (Max.)	★★★★☆☆ 0.55@1MHz (Typ.)
Capacitance @ $V_R=0V$ I/O to I/O	pF	★★★★★ 0.25@1MHz (Typ.)			★★★★☆☆ 0.55@1MHz (Typ.)
I_{PP} (8/20μs)	A	★★★★☆☆ 4	-	★★★★☆☆ 2.66 (square pulse $t_p=1ms$)	★★★★☆☆ 4.7
$V_{BR}@1mA$	V	7 (Typ.)	6.1 ~ 7.2	5.89 ~ 6.51	6 ~ 9
V_{RWM}	V	>5.5	3		>5
I_R	nA	★★★★★ 1@ $V_R=5V$ (Typ.)	★★★★☆☆ 1000@ $V_R=3V$ (Max.)	★★★★☆☆ 700@ $V_R=4V$ (Max.)	★★★★☆☆ 5000 (Max.)
$V_C@I_{PP}=1A$ 8/20μs	V	★★★★★ 7 (Typ.)	★★★★☆☆ 8 (Typ.)		