

### **AS1745G-T Information**

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For Reference Only

Part Number AS1745G-T

Manufacturer ams

Category Integrated Circuits (ICs)

Interface - Analog Switches, Multiplexers,

**Demultiplexers** 

**Description** IC SWITCH DUAL SPDT 10-MSOP

**Package** 10-TFSOP, 10-MSOP (0.118", 3.00mm Width)

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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### **Certified Quality**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.









# **AS1745G-T Specifications**

Manufacturer Part Number         AS1745G-T           Manufacturer         ams           Category         Integrated Circuits (ICs)           Interface - Analog Switches, Multiplexers, Demultiplexers           Package         10-TFSOP, 10-MSOP (0.118", 3.00mm Width)           Series         -           Switch Circuit         SPDT           Multiplexer/Demultiplexer Circuit         2:1           Number of Circuits         2           On-State Resistance (Max)         4 0hm           Channel-to-Channel Matching (Ron)         100 mOhm           Voltage - Supply, Single (V+)         1.8 V ~ 5.5 V           Voltage - Supply, Dual (V±)         -           Switch Time (Ton, Toff) (Max)         17ns, 6ns           -3db Bandwidth         -           Charge Injection         7pC           Channel Capacitance (CS(off), CD(off))         20pF           Current - Leakage (IS(off)) (Max)         100pA           Crosstalk         -90dB @ 1MHz           Operating Temperature         -40°C ~ 85°C (TA)           Package / Case         10-TFSOP, 10-MSOP (0.118", 3.00mm Width)           Supplier Device Package         10-MSOP	<b>-</b>	
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Switch CircuitSPDTMultiplexer/Demultiplexer Circuit2:1Number of Circuits2On-State Resistance (Max)4 OhmChannel-to-Channel Matching (Ron)100 mOhmVoltage - Supply, Single (V+)1.8 V ~ 5.5 VVoltage - Supply, Dual (V±)-Switch Time (Ton, Toff) (Max)17ns, 6ns-3db Bandwidth-Charge Injection7pCChannel Capacitance (CS(off), CD(off))20pFCurrent - Leakage (IS(off)) (Max)100pACrosstalk-90dB @ 1MHzOperating Temperature-40°C ~ 85°C (TA)Package / Case10-TFSOP, 10-MSOP (0.118", 3.00mm Width)Supplier Device Package10-MSOP	Package	10-TFSOP, 10-MSOP (0.118", 3.00mm Width)
Multiplexer/Demultiplexer Circuit2:1Number of Circuits2On-State Resistance (Max)4 OhmChannel-to-Channel Matching (Ron)100 mOhmVoltage - Supply, Single (V+)1.8 V ~ 5.5 VVoltage - Supply, Dual (V±)-Switch Time (Ton, Toff) (Max)17ns, 6ns-3db Bandwidth-Charge Injection7pCChannel Capacitance (CS(off), CD(off))20pFCurrent - Leakage (IS(off)) (Max)100pACrosstalk-90dB @ 1MHzOperating Temperature-40°C ~ 85°C (TA)Package / Case10-TFSOP, 10-MSOP (0.118", 3.00mm Width)Supplier Device Package10-MSOP	Series	-
Number of Circuits         2           On-State Resistance (Max)         4 Ohm           Channel-to-Channel Matching (Ron)         100 mOhm           Voltage - Supply, Single (V+)         1.8 V ~ 5.5 V           Voltage - Supply, Dual (V±)         -           Switch Time (Ton, Toff) (Max)         17ns, 6ns           -3db Bandwidth         -           Charge Injection         7pC           Channel Capacitance (CS(off), CD(off))         20pF           Current - Leakage (IS(off)) (Max)         100pA           Crosstalk         -90dB @ 1MHz           Operating Temperature         -40°C ~ 85°C (TA)           Package / Case         10-TFSOP, 10-MSOP (0.118", 3.00mm Width)           Supplier Device Package         10-MSOP	Switch Circuit	SPDT
On-State Resistance (Max) Channel-to-Channel Matching (Ron) 100 mOhm Voltage - Supply, Single (V+) 1.8 V ~ 5.5 V  Voltage - Supply, Dual (V±) - Switch Time (Ton, Toff) (Max) 17ns, 6ns -3db Bandwidth - Charge Injection 7pC Channel Capacitance (CS(off), CD(off)) 20pF Current - Leakage (IS(off)) (Max) 100pA Crosstalk -90dB @ 1MHz Operating Temperature -40°C ~ 85°C (TA) Package / Case 10-TFSOP, 10-MSOP (0.118", 3.00mm Width) Supplier Device Package	Multiplexer/Demultiplexer Circuit	2:1
Channel-to-Channel Matching (Ron)  Voltage - Supply, Single (V+)  1.8 V ~ 5.5 V  Voltage - Supply, Dual (V±)  Switch Time (Ton, Toff) (Max)  -3db Bandwidth  -Charge Injection  Channel Capacitance (CS(off), CD(off))  Current - Leakage (IS(off)) (Max)  Crosstalk  -90dB @ 1MHz  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package	Number of Circuits	2
Voltage - Supply, Single (V+)  Voltage - Supply, Dual (V±)  Switch Time (Ton, Toff) (Max)  -3db Bandwidth  Charge Injection  Channel Capacitance (CS(off), CD(off))  Current - Leakage (IS(off)) (Max)  Crosstalk  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package	On-State Resistance (Max)	4 Ohm
Voltage - Supply, Dual (V±)  Switch Time (Ton, Toff) (Max)  -3db Bandwidth  Charge Injection  Channel Capacitance (CS(off), CD(off))  Current - Leakage (IS(off)) (Max)  Crosstalk  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package	Channel-to-Channel Matching (Ron)	100 mOhm
Switch Time (Ton, Toff) (Max)  -3db Bandwidth  -Charge Injection  Channel Capacitance (CS(off), CD(off))  Current - Leakage (IS(off)) (Max)  Crosstalk  -90dB @ 1MHz  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package	Voltage - Supply, Single (V+)	1.8 V ~ 5.5 V
-3db Bandwidth - Charge Injection 7pC Channel Capacitance (CS(off), CD(off)) 20pF Current - Leakage (IS(off)) (Max) 100pA Crosstalk -90dB @ 1MHz Operating Temperature -40°C ~ 85°C (TA) Package / Case 10-TFSOP, 10-MSOP (0.118", 3.00mm Width) Supplier Device Package 10-MSOP	Voltage - Supply, Dual (V±)	-
Charge Injection 7pC  Channel Capacitance (CS(off), CD(off)) 20pF  Current - Leakage (IS(off)) (Max) 100pA  Crosstalk -90dB @ 1MHz  Operating Temperature -40°C ~ 85°C (TA)  Package / Case 10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package 10-MSOP	Switch Time (Ton, Toff) (Max)	17ns, 6ns
Channel Capacitance (CS(off), CD(off))  Current - Leakage (IS(off)) (Max)  100pA  Crosstalk  -90dB @ 1MHz  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package	-3db Bandwidth	-
Current - Leakage (IS(off)) (Max)  Crosstalk  -90dB @ 1MHz  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package  10-MSOP	Charge Injection	7pC
Crosstalk -90dB @ 1MHz  Operating Temperature -40°C ~ 85°C (TA)  Package / Case 10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package 10-MSOP	Channel Capacitance (CS(off), CD(off))	20pF
Operating Temperature -40°C ~ 85°C (TA)  Package / Case 10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package 10-MSOP	Current - Leakage (IS(off)) (Max)	100pA
Package / Case 10-TFSOP, 10-MSOP (0.118", 3.00mm Width) Supplier Device Package 10-MSOP	Crosstalk	-90dB @ 1MHz
Supplier Device Package 10-MSOP	Operating Temperature	$-40^{\circ}\text{C} \sim 85^{\circ}\text{C} \text{ (TA)}$
	Package / Case	10-TFSOP, 10-MSOP (0.118", 3.00mm Width)
Report errors?	Supplier Device Package	10-MSOP
		Report errors?

### **AS1745G-T Guarantees**



#### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

# **AS1745G-T Payment Methods**



















## **AS1745G-T Shipping Methods**













If you have any question about AS1745G-T, please do not hesitate to contact us!

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