BOTHHAND









LAN Component

DC/DC Converter

Provide the best integration service

to create a brilliant world together

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DC/DC Converter

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Package		Series	Output (Watt)	Input Voltage (VDC)	Output Voltage (VDC)	Isolation Voltage(VDC)
SMD	14(18) Pin	SA1(H) LF	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, ±3.3, ±5, ±9, ±12, ±15	1K (3K)
	14 Pin	SD1 (Short circuit protection)	1	4.5 ~ 5.5	3.3, 5, 9, 12, 15	1.5K
SIP	4 Pin	DQA1P	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15	1.5K
	7 Pin	DHA1	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24	1.5K
		DHB1H3	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24	3K
		DKA1P	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24, ±3.3, ±5, ±9, ±12, ±15, ±24	1.5K
		DKB1PH3	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24, ±3.3, ±5, ±9, ±12, ±15, ±24	3K
		HBA1H6(8)	1	5, 12, 15, 24	3.3, 5, 7.2, 9, 12, 15, ±3.3, ±5, ±7.2, ±9, ±12, ±15	6.4K (8K)
		DHA2	2	5, 12, 15, 24	5, 12, 15	1.5K
		DHB2H3	2	5, 12, 15, 24	5, 12	3K
		DKA2P	2	5, 12, 15, 24	3.3, 5, 9, 12, 15, 24 ±3.3, ±5, ±9, ±12, ±15	1.5K
		DKB2PH3	2	5, 12, 15, 24	3.3, 5, 9, 12, 15, 24, ±3.3, ±5, ±9, ±12, ±15, ±24	3K
		HBA2H6(8)	2	5, 12, 15, 24	3.3, 5, 7.2, 9, 12, 15, ±3.3, ±5, ±7.2, ±9, ±12, ±15	6.4K (8K)
	8 Pin	CEA3H3	3	4.5~9, 9~18, 18~36, 36~75	5, 9, 12, 15, ±5, ±12, ±15	3K
DIP	24 pin	BOB3	3	9~18, 18~36, 36~75	3.3, 5, 12, 15, ±5, ±12, ±15	1.5K
		BOB3W	3	9~36, 18~75	3.3, 5, 12, 15, ±5, ±12, ±15	1.5K
		BOB5(H3)	5	4.5~9, 9~18, 18~36, 36~75	3.3, 5, 12, 15, ±5, ±12, ±15	1.5K (3K)
		BOB5W(H3)	5	9~36, 18~75	3.3, 5, 12, 15, ±5, ±12, ±15	1.5K (3K)
		HAA5H6	5	9~18, 18~36, 36~75	3.3, 5, 12, 15, ±5, ±12, ±15	6K
		BOB8	8	9~18, 18~36, 36~75	3.3, 5, 12, 15, ±5, ±12, ±15	1.5K
		BOB8W(H3)	8	9~36, 18~75	3.3, 5, 12, 15, ±5, ±12, ±15	1.5K (3K)
		ROB8W	8	43~160	3.3, 5, 12, 15, ±5, ±12, ±15	1.5K

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Package(mm)	Series	Output (Watt)	Input Voltage (VDC)	Output Voltage (VDC)	Isolation Voltage(VDC)
25.4×25.4×10.2 (1" X 1")	BRN6	6	9~18, 18~36, 36~75	3.3, 5, 12, 15, 24 ±5, ±12, ±15	1.5K
	BRN6W	6	9~36, 18~75	3.3, 5, 12, 15, 24 ±5, ±12, ±15	1.5K
	BRN10	10	9~18, 18~36, 36~75	3.3, 5, 12, 15, 24 ±5, ±12, ±15	1.5K
	BRN10W	10	9~36, 18~75	3.3, 5, 12, 15, 24 ±5, ±12, ±15	1.5K
50.8×25.4×10.2 (1" X 2")	MUA5 (Wide operating temp.)	5	9~18, 18~36, 36~75	5, 12, ±15	1.5K
	HUB10(H3)	10	9~18, 18~36, 36~75	3.3, 5, 12, 15, 24 ±5, ±12, ±15	1.5K (3K)
	HUB12(H3)	12	9~18, 18~36, 36~75	3.3, 5, 12, 15 ±5, ±12, ±15	1.5K (3K)
	BUB12W	12	9~36, 18~75	3.3, 5, 12, 15 ±5, ±12, ±15	1.5K
	BUA15L	15	9~18, 18~36, 36~75	3.3, 5.1, 12, 15, ±12, ±15	1.5K
	BUB15	15	9~18, 18~36, 36~75	3.3, 5, 12, 15 ±5, ±12, ±15	1.5K
	BUB15W	15	9 ~ 36 , 18 ~ 75	3.3, 5.1, 12, 15, ±5, ±12, ±15	1.5K
	BUB20	20	9~18, 18~36, 36~75	3.3, 5, 12, 15, ±5, ±12, ±15	1.5K
	BUB20WHS	20	9~36, 18~75	3.3, 5, 12, 15, ±5, ±12, ±15	1.5K
	BUC30	30	9~18, 18~36, 36~75	1.5, 2.5, 3.3, 5.1, 12, 15, ±5, ±12, ±15	1.5K
50.8×40.6×10.2 (1.6" X 2")	BVA25	25	9~18, 18~36, 36~75	3.3, 5, 12, 15, ±12, ±15	1.5K
	BVA30W	30	9~36, 18~75	1.8, 2.5, 3.3, 5, 12, 15, ±5, ±12, ±15	1.5K
50.8×50.8×10.2 (2" X 2")	BWA40HS	40	9~18, 18~36, 36~75	3.3, 5, 12, ±12, ±15	1.5K
	BWC40W	40	9~36, 18~75	3.3, 5, 12, 15, ±5, ±12, ±15	1.5K
	BXC60W	60	9~36, 18~75	3.3, 5, 12, 15	1.5K
61.0×57.9×12.7 (2.4" X 2.3")	BYB100	100	36~75	12, 24, 28, 48	1.5K
	BYC100HS	100	38~58	12	1.5K

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Package	Data Rate	Number of Ports	Part Number	Operating Temp.	PoE / PoE+ (Current Per Pair)
SMD	10G BASE-T	Single	10G1SB01	0℃ to +70℃	NON-PoE
		Dual	10G2SA01	0℃ to +70℃	NON-PoE
	2.5G/5G BASE-T	Single	QVP6014	0℃ to +70℃	600mA
			QVP6014M	-40℃ to +85℃	600mA
			QVP2014R	0℃ to +70℃	NON-PoE
		Dual	QGS6015	0℃ to +70℃	600mA
			QGS9015RM	-40℃ to +85℃	1A
	2.5G BASE-T	Dual	AGS2015S	0℃ to +70℃	NON-PoE
	1000 BASE-T	Single	GST5009 LF	0℃ to +70℃	NON-PoE
			GST5009B LF	0℃ to +70℃	NON-PoE
			GST5009BM LF	-40℃ to +85℃	NON-PoE
			GST5009C LF	0℃ to +70℃	350mA
			GST5009M LF	-40℃ to +85℃	350mA
			GST5009PM LF	-40℃ to +85℃	350mA
			24HSS1041-2 HF	0℃ to +70℃	NON-PoE
			24HSS1041A-2 HF	0℃ to +70℃	600mA
			24HSS1041AM-2 HF	-40℃ to +85℃	350mA
			24HSS1041M-2 HF	-40℃ to +85℃	350mA
			24HSS1041R-2 HF	0℃ to +70℃	NON-PoE
			24SH10410 HF	-10℃ to +70℃	350mA
			24SH10410M HF	-40℃ to +85℃	350mA
		Dual	GS5014 LF	0℃ to +70℃	350mA
			GS5014M LF	-40℃ to +85℃	350mA
			GS5014R LF	0℃ to +70℃	350mA
			GS5014RM LF	-40℃ to +85℃	NON-PoE
			GS5014RY LF	0℃ to +70℃	350mA
			GS6014 LF	0℃ to +70℃	600mA
			GS6014B LF	0℃ to +70℃	600mA
			GS50AA00	0℃ to +70℃	NON-PoE
			GS50AA003	0℃ to +70℃	720mA
	1000 BASE-T Voice Over IP	Single	VP6150M HF	-40℃ to +85℃	1500mA
			VP6014 HF	0℃ to +70℃	600mA
			VP6014R HF	0℃ to +70℃	600mA
			VP6014M HF	-40℃ to +85℃	600mA
			VP6014RM HF	-40℃ to +85℃	720mA
			VP6014DM HF	-40℃ to +85℃	600mA

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Package	Data Rate	Number of Ports	Part Number	Operating Temp.	PoE / PoE+ (Current Per Pair)
SMD	1000 BASE-T Voice Over IP	Dual	VP6015 LF	0℃ to +70℃	600mA
	1000 BASE-T PC CARD	Single	NA69 LF	0℃ to +70℃	NON-PoE
			NA69R LF	0℃ to +70℃	NON-PoE
			NA0069 LF	0℃ to +70℃	NON-PoE
			NA0069R LF	0℃ to +70℃	NON-PoE
			NA0069RM LF	-40℃ to +85℃	NON-PoE
	10/100 BASE-T	Single	TS8121A HF	0℃ to +70℃	NON-PoE
			TS8121AM HF	-40℃ to +85℃	720mA
			TS8121CM HF	-40℃ to +85℃	350mA
			TS8121CX HF	0℃ to +70℃	NON-PoE
			TS8121CXM HF	-40℃ to +85℃	NON-PoE
			TS21C HF	0℃ to +70℃	NON-PoE
		Quad	40SS1041AX HF	0℃ to +70℃	NON-PoE
			40SS1041AXM HF	-40℃ to +85℃	NON-PoE
			40SS1041RX HF	0℃ to +70℃	NON-PoE
	10/100 BASE-T Voice Over IP	Single	VP8019 HF	0℃ to +70℃	350mA
			VP6019M HF	-40℃ to +85℃	600mA
	10/100 BASE-TX Voice Over IP	Single	VP6019 HF	0℃ to +70℃	700mA
			VP6019R HF	0℃ to +70℃	700mA
	10/100 BASE-T PC CARD	Single	NS0013 LF	0℃ to +70℃	NON-PoE
			NS0013B LF	0℃ to +70℃	NON-PoE
			NS0014 LF	0℃ to +70℃	NON-PoE
			NS0015 LF	0℃ to +70℃	NON-PoE
DIP	2.5G/5G BASE-T	Quad	QGU4629R	0℃ to +70℃	600mA
	2.5G BASE-T	Single	AG1PM109N	0℃ to +70℃	NON-PoE
	1000 BASE-T	Single	HG1PM109N LF	0℃ to +70℃	600mA
			HG1PM109NM LF	-40℃ to +85℃	600mA
			HG1PM109RN	0℃ to +70℃	600mA
			G1PM109NM LF	-40℃ to +85℃	NON-PoE
			G1PM109RN LF	0℃ to +70℃	NON-PoE
			G1PM109RNM LF	-40℃ to +85℃	NON-PoE
			LG1P109N LF	0℃ to +70℃	NON-PoE
			LG1P109RN LF	0℃ to +70℃	NON-PoE

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Package	Data Rate	Number of Ports	Part Number	Operating Temp.	PoE / PoE+ (Current Per Pair)
DIP	1000 BASE-T	Dual	HG2PM109N LF	0℃ to +70℃	600mA
			HG2PM109N1 LF	0℃ to +70℃	720mA
			HG2PM109NM LF	-40℃ to +85℃	720mA
			HG2PM109RN LF	0℃ to +70℃	720mA
			LG2P109N LF	0℃ to +70℃	NON-PoE
			LG2P109RN LF	0℃ to +70℃	NON-PoE
		Quad	GU4629 LF	0℃ to +70℃	600mA
			GU6229RY LF	0℃ to +70℃	NON-PoE
			GU6629RY LF	0℃ to +70℃	600mA
			GU6829RY LF	0℃ to +70℃	720mA
			GP5209 LF	0℃ to +70℃	NON-PoE
			GP5409 LF	0℃ to +70℃	350mA
			GP5429 LF	0℃ to +70℃	350mA
			GP5609S LF	0℃ to +70℃	700mA
			GP5629DNM LF	-40℃ to +110℃	600mA
			GP5829 LF	0℃ to +70℃	800mA
			GP5829M LF	-40℃ to +85℃	800mA
			GP5829RY-2 LF	0℃ to +70℃	850mA
			GP6629RZ LF	0℃ to +70℃	700mA
			GH5208R LF	0℃ to +70℃	NON-PoE
			GH5208RY LF	0℃ to +70℃	NON-PoE
			GH5209 LF	0℃ to +70℃	NON-PoE
			GH5209RY LF	0℃ to +70℃	NON-PoE
			GH5210 LF	0℃ to +70℃	NON-PoE
			GH5210R LF	0℃ to +70℃	NON-PoE
			GH5409 LF	0℃ to +70℃	350mA
			GH5409M LF	-40℃ to +85℃	350mA
			GH5608R LF	0℃ to +70℃	600mA
			GH5609S LF	0℃ to +70℃	600mA
			GH5610RS LF	0℃ to +70℃	600mA
			GH5610RSY LF	0℃ to +70℃	600mA
			GH5610RSY-3 LF	0℃ to +70℃	600mA
			G4P109N-A LF	0℃ to +70℃	NON-PoE
			G4P109RN-A LF	0℃ to +70℃	NON-PoE
			G4P109RNY LF	0℃ to +70℃	NON-PoE

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Package	Data Rate	Number of Ports	Part Number	Operating Temp.	PoE / PoE+ (Current Per Pair)
DIP	10/100 BASE-T	Single	12PS6121A LF	0℃ to +70℃	NON-PoE
			12PS6121C LF	0℃ to +70℃	NON-PoE
			12PS6121CM LF	-40℃ to +85℃	NON-PoE
			12PS6121UX LF	0℃ to +70℃	NON-PoE
	10/100 BASE-T Applied to MDIX	Dual	20PT1021SX LF	0℃ to +70℃	NON-PoE
			20PT1024X LF	0℃ to +70℃	NON-PoE
			20PT1024RX LF	0℃ to +70℃	NON-PoE
			20PT1024SX LF	0℃ to +70℃	NON-PoE

RJ-45/ICM

Data Rate	Port Config	LED	Part Number	Port Orientation	Operating Temp.
10G BASE-T	1 x 1	Yes	RT1TA114A3	Tab up	0℃ to +70℃
	1 x 4	Yes	LT4TA114A3	Tab down	0℃ to +70℃
	2 x 6	Yes	DT6TA114A3	Stacked	0℃ to +70℃
1000 BASE-T	1 x 1	Yes	KLA1T109-43 LF	Tab down	0℃ to +70℃
		No	KLA1T109-Y LF	Tab down	0℃ to +70℃
10/100 Base-T	1 x 1	Yes	KLU1S041-43 LF	Tab down	0℃ to +70℃
		Yes	KLU1S041C-43 LF	Tab down	0℃ to +70℃
		Yes	KLU1S041C-Y-43 LF	Tab down	0℃ to +70℃
		Yes	KLU1S041F -43 LF	Tab down	0℃ to +70℃
		No	KLU1S041-H LF	Tab down	0℃ to +70℃
		No	KLU1S041X LF	Tab down	0℃ to +70℃
		No	KLU1S041X-Y LF	Tab down	0℃ to +70℃
		Yes	KLU1S041X-Y-34 LF	Tab down	0℃ to +70℃
		Yes	KLU1S041X-Y-43 LF	Tab down	0℃ to +70℃
		Yes	KLU1T516-43 LF	Tab down	0℃ to +70℃
	1 x 4	No	KLU4S041X-Y LF	Tab down	0℃ to +70℃
10/100 Base-TX	1 x 1	No	KRU1S041X LF	Tab up	0℃ to +70℃

About BOTHHAND

帛汉股份有限公司成立于1992年。我们一直致力于生产与设计网络相关零组件，例如，局域网组件(RJ-45内含脉冲变压器与LED)、脉冲变压器、以及直流-直流电源转换器。我们通过ISO 9001, ISO 14001, IATF 16949, QC0800000以及SONY之GP认证证明我们拥有最佳的质量与效率管理。

除此之外，优异的质量验证系统与生产能力，使我们能满足客户设计以及制造服务需求。帛汉将以精实的营运模式(通过自动化与供应链整合，以及e化管理平台，提升运作效率，加速决策订定)，持续提供最佳质量与最具价格竞争力的网络相关零组件以及直流-直流电源转换器，协助顾客实现最具竞争力的优质产品。

BOTHHAND Enterprise Inc. was founded in 1992 with the leadership of designing and manufacturing network related components such as LAN components, pulse transformer and DC/DC converter. In striving to become one of global leading suppliers in LAN components, pulse transformer and DC/DC Converter, we devote to protect environment and honorably awarded SONY GP, ISO140001, QC0800000 certification in lead free process of our products. In addition, with outstanding quality verification system (ISO 9001 and IATF 16949 also awarded) and production capability, we can provide customers with best DMS (Design and Manufacturing Service).

In order to assist customers in delivering competitive and high quality offerings, we will execute lean operation (including automation, supply chain integration, e-management platform to improving operating efficiency and accelerating decision-making) to keep developing best quality and cost effective LAN components, pulse transformer and DC/DC converter.

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BOTHHAND ENTERPRISE INC.

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