

SELECTION GUIDE

Ark.3G series



GOOD DESIGN
AWARD 2019

Crystal resonators

Crystal oscillators

Monolithic crystal filters

Optical products

MEMS oscillators

Crystal Resonators



Scan the QR code to check the table of contents page of our web site "Crystal Resonators" (URL: <http://www.kds.info/class/1-l-qr/>).

Icons **CE** Consumer Equipment **IE** Industrial Equipment **TC** Mobile Phone, Wireless Communication **AE** Automotive Electronics

SMD Crystal Resonators / MHz Band Crystal Resonators

Type	Actual Size	Size (mm)			Frequency Range (MHz)	Frequency Tolerance ($\times 10^{-6}$) @+25°C	Frequency Characteristics over Temperature ($\times 10^{-6}$)	Operating Temperature Range (°C)	Load Capacitance (pF)	Drive Level ($\mu\text{w(max.)}$)	Lid	Recommended Application	Catalog Page
		L	W	H (max.)									
DSX1008A		1.0	0.8	0.3	40, 59.97	± 10	± 10	-30 to +85	8, 10, 12	10 (100)	Metal	CE TC	17
*DX1008JS		1.0	0.8	0.13	48, 52, 80, 96, 120	± 20	± 30	-30 to +85	8, 10, 12	10 (100)	Crystal	CE TC	7
DSX1210A		1.2	1.0	0.3	32 to 96	± 10	± 15	-30 to +85	8, 10, 12	10 (100)	Metal	CE TC	18
DSX1612S		1.6	1.2	0.4	24 to 54	± 10	± 15	-30 to +85	8, 10, 12	10 (100)	Metal	CE TC	19
DSX1612SL		1.6	1.2	0.33	32 to 52								
DSX211S		2.05	1.65	0.5	24 to 50, 80, 96 24 to 50	± 20 ± 30	± 30 ± 100	-30 to +85 -40 to +125	8, 10, 12	10 (200) 10 (100)	Metal	CE IE TC AE	20 80
DSX211SH		2.05	1.65	0.5	24 to 50	± 20 ± 30	± 30 ± 100	-30 to +85 -40 to +125	8, 10, 12	10 (100)	Metal	CE IE TC AE	20 80
DSX221SH		2.5	2.0	0.5	12 to 54					10 (200)			
DSX321SH		3.2	2.5	0.75	12 to 50					10 (200)			
DSX210GE		2.2	1.6	1.0	16 to 64	± 30	± 100	-40 to +125	8, 10, 12	10 (100)	Ceramic	AE	76
DSX211G		2.0	1.6	0.8	20 to 64	± 20 ± 30	± 30 ± 100	-30 to +85 -40 to +125	8, 10, 12	10 (100)	Ceramic	CE IE TC AE	21 76
DSX221G		2.5	2.0	0.9	12 to 64	± 20 ± 30	± 30 ± 100	-30 to +85 -40 to +125	8, 10, 12	10 (200)	Ceramic	CE IE TC AE	22 77
DSX320G		3.2	2.5	1.0	12 to 64	± 30	± 100	-40 to +125	8, 10, 12	10 (200)	Ceramic	AE	78
DSX320GE		3.2	2.5	1.1	7.9 to 12								
DSX320G		3.2	2.5	1.1	7.9 to 64	± 30	± 100	-40 to +125	8, 10, 12	10 (200)	Ceramic	AE	78
DSX321G		3.2	2.5	0.9	12 to 64	± 20 ± 30	± 30 ± 100	-30 to +85 -40 to +125	8, 10, 12	10 (200)	Ceramic	CE IE TC AE	23 78
DSX321GK		3.2	2.5	1.0	7.9 to 12	± 30	± 100	-40 to +125	8, 10, 12	10 (200)	Ceramic	AE	78
DSX530GA		5.0	3.2	1.2	7 to 54/45 to 80 7 to 54	± 30	± 50 ± 100	-30 to +85 -40 to +125	8, 10, 12	10 (300)/10 (500) 10 (300)	Ceramic	CE IE AE	24 79
DSX530GK		5.0	3.2	1.2	8 to 54	± 30	± 100	-40 to +125	8, 10, 12	10 (300)	Ceramic	AE	79
SMD-49		11.0	4.6	4.5	4, 8	± 30	± 100	-40 to +125	8, 10, 12	10 (300)	Metal	AE	82

SMD Crystal Resonators with dedicated temperature sensor / MHz Band Crystal Resonators

Type	Actual Size	Size (mm)			Frequency Range (MHz)	Frequency Tolerance ($\times 10^{-6}$) @+25°C	Frequency Characteristics over Temperature ($\times 10^{-6}$)	Operating Temperature Range (°C)	Load Capacitance (pF)	Drive Level ($\mu\text{w(max.)}$)	Lid	Recommended Application	Catalog Page
		L	W	H (max.)									
DSR1210ATH		1.2	1.0	0.55	38.4, 76.8	± 10	± 12	-30 to +85	6, 7, 8	10 (100)	Metal	TC	25
DSR1612ATH		1.6	1.2	0.65	38.4, 52, 76.8 38.4	± 10	± 12 ± 30	-30 to +85 -40 to +105	6, 7, 8 7, 8	10 (100)	Metal	TC AE	26 81
DSR211ATH		2.0	1.6	0.65	19.2	± 10	± 12 ± 30	-30 to +85 -40 to +105	7, 8	10 (100)	Metal	TC AE	
DSR211STH		2.0	1.6	0.8 (0.65)	19.2, 26, (38.4) 19.2, (38.4)	± 10	± 12 ± 30	-30 to +85 -40 to +105	7, 8	10 (100)	Metal	TC AE	
DSR221STH		2.5	2.0	1.0	19.2, 26 19.2	± 10	± 12 ± 20	-30 to +85 -40 to +105	7, 8	10 (100)	Metal	TC AE	

SMD Tuning Fork Crystal Resonators / kHz Band Crystal Resonators

Type	Actual Size	Size (mm)			Frequency Range (kHz)	Frequency Tolerance ($\times 10^{-6}$) @+25°C	Series resistance (k Ω max.)	Operating Temperature Range (°C)	Load Capacitance (pF)	Drive Level ($\mu\text{w(max.)}$)	Package	Recommended Application	Catalog Page
		L	W	H (max.)									
DST1210A		1.25	1.05	0.35	32.768	± 20	80	-40 to +85	7, 9, 12.5	0.1 (0.2)	Ceramic	CE TC	27
DST1610A		1.6	1.0	0.5	32.768	± 20	50 120	-40 to +85 -40 to +125	6, 7, 9, 12.5	0.1 (0.5)	Ceramic	CE TC AE	28 83
DST1610AL		1.6	1.0	0.35			80	-40 to +85					28
DST210AC		2.0	1.2	0.55	32.768	± 20	80 120	-40 to +85 -40 to +125	7, 9, 12.5	0.2 (1.0)	Ceramic	CE IE TC AE	28 83
DST310S		3.2	1.5	0.85			50, 80 80, 120	-40 to +85 -40 to +125					29 83
DST311S		3.2	1.5	0.85			50, 80	-40 to +85					29
DMX-26S		8.0	3.8	2.5	30 to 90	± 20	50 50, 80	-40 to +85 -40 to +125	7, 9, 12.5	1.0 (2.0)	Plastic	CE AE	30 84

Tuning Fork Crystal Resonators / kHz Band Crystal Resonators

Type	Actual Size	Size (mm)			Frequency Range (kHz)	Frequency Tolerance ($\times 10^{-6}$) @+25°C	Series resistance (k Ω max.)	Operating Temperature Range (°C)	Load Capacitance (pF)	Drive Level ($\mu\text{w(max.)}$)	Package	Recommended Application	Catalog Page
		L	W	H (max.)									
DT-26		ϕ 2.0	ϕ 2.0	6.0	32.768	± 20 (GRADE A)	40	-10 to +60	12.5	1.0 (2.0)	Cylinder	CE IE	31
DT-261		ϕ 2.0	ϕ 2.0	6.0	28 to 90								
DT-38		ϕ 3.0	ϕ 3.0	8.0	32.768	± 30 (GRADE B)	30	-10 to +60	12.5	1.0 (2.0)	Cylinder	CE IE	31
DT-381		ϕ 3.0	ϕ 3.0	8.0	20 to 90								

* Arkh.3G series have received the 2019 Good Design Award.

Monolithic Crystal Filters



Scan the QR code to check the table of contents page of our web site "Monolithic Crystal Filters" (URL: <http://www.kds.info/class/3-l-cf/>).

Icons IE Industrial Equipment TC Mobile Phone, Wireless Communication

Monolithic Crystal Filters

Type	Actual Size	Size (mm)			Frequency Range (MHz)	Operating Temperature Range (°C)	Overtone Order	Pole	Pass Bandwidth (kHz min./3dB)	Recommended Application	Catalog Page
		L	W	H (max.)							
DSF334SAF		3.0	3.0	1.1	45 to 130	-20 to +70	Fundamental	2	±3.5, ±7.5, ±15		102
DSF334SAO					100 to 160		3rd				
DSF334SCF					60 to 130		Fundamental	3			
DSF444SAF		3.8	3.8	1.1	40 to 130		Fundamental	2			
DSF444SAO					100 to 160		3rd				
DSF444SCF					60 to 130		Fundamental	3			
DSF444SCO					100 to 160		3rd				
DSF633SDF		6.0	3.5	1.3	37 to 130	-20 to +70	Fundamental	4	±3.5, ±7.5, ±15	 	103
DSF753SAF		7.0	5.0	1.5	16 to 90	-20 to +70	Fundamental	2	±3.5, ±7.5, ±15	 	104
DSF753SAO					60 to 160		3rd				
DSF753SCF					20 to 130		Fundamental	3			
DSF753SCO					90 to 160		3rd				
DSF753SBF					30 to 70		Fundamental	4			
DSF753SDF					20 to 130						

Optical Products



Scan the QR code to check the table of contents page of our web site "Optical Products" (URL: <http://www.kds.info/class/4-l-og/>).

Optical Thin Film

Type	Features	Applications	Catalog Page
IR Double Cut Filter	Infrared Absorbing Glass Type + Infrared Cut Coating Type	Color compensation	106
Dual Pass Filters	Transmitting at both the near-infrared region and the visible light region	Color compensation	107

■ IR Double Cut Filter (IR Cut Filter)

"IR Double Cut Filter" is designed with the absorptive material and coating which blocks the transmission of the infrared. It comes with improved transmittance rate at visible light range, blocks near infrared light range and reduces the flares.

■ Dual Pass Filters (Dual Band Pass Filters)

"Dual Pass filter" is a filter that has a transmission range of the near-infrared region and the visible light region. This filter is suitable to the surveillance cameras for shooting day and night continuously.

Crystal Oscillators



Scan the QR code to check the table of contents page of our web site "Crystal Oscillators" (URL: <http://www.kds.info/class/2-l-co/>).

Icons VC Voltage Control Function Stb Stand-by Function 2OP Two Output Function
CE Consumer Equipment IE Industrial Equipment TC Mobile Phone, Wireless Communication AE Automotive Electronics

Temperature Compensated Crystal Oscillators (TCXO/VC-TCXO)

Type	Actual Size	Size (mm)			Output	Frequency Range (MHz)	Frequency Characteristics over Temperature (x10 ⁻³)	Operating Temperature Range (°C)	Supply Voltage (V)	Function	Recommended Application	Catalog Page												
		L	W	H (max.)																				
DSA1612SDN		1.6	1.2	0.55	CS	16 to 60	±1.0 ±0.5	-40 to +85	+1.68 to +3.5	VC	IE TC AE	38, 39 94, 95												
DSB1612SDN							±0.5			Stb														
DSB1612SDNB						26, 38.4, 52				±1.0 ±0.5			VC											
DSB1612WA							±0.5						Stb	IE TC	37									
DSA211SDN		2.0	1.6	0.8		12.288 to 52	±1.0 ±0.5			-40 to +85	+1.68 to +3.5	VC	IE TC AE	38, 39 94, 95										
DSB211SDN							±0.5					Stb												
DSB211SDNB						9.6 to 52	±1.0 ±0.5					VC												
DSA221SDN	±0.5	Stb																						
DSB221SDN		2.5	2.0	0.9		9.6 to 52	±1.0 ±0.5					-40 to +85			+1.68 to +3.5	VC	IE TC AE	38, 39 94, 95						
DSB221SDNB							±0.5									Stb								
DSA321SDN						3.2	2.5									1.0				±1.0 ±0.5	VC			
DSB321SDN	±0.5	Stb																						
DSB321SDNB	±0.5	Stb																						
DSB211SJA		2.0	1.6	0.8	CMOS	13 to 52	±5.0	-40 to +105	+1.7 to +3.6				Stb	IE TC AE		45 - 96								
DSB211SLB		2.0	1.6	0.7	CS	12.288 to 40	±0.5	-40 to +85	+1.1 to +1.4				Stb	TC		44								
DSB221SLB		2.5	2.0	0.9		9.6 to 40																		
DSB321SLB		3.2	2.5	1.0																				
DSA211SP		2.0	1.6	0.7	CS	12.288 to 52	±1.0 ±0.5	-40 to +105	+1.68 to +3.5	VC	AE		93											
DSB211SP							±0.5																	
DSA221SP						9.6 to 52	±1.0 ±0.5			VC														
DSB221SP							±0.5																	
DSA222MAA		2.5	2.0	0.8	CS/CS	13 to 52	±2.0	-30 to +85	+2.3 to +3.63	VC Stb 2OP	TC	40, 41												
DSB222MAA					CS/CMOS	13 to 40				2OP														
DSA222MAB										VC 2OP														
DSB222MAB										2OP														
DSA535SC		5.0	3.2	1.5	CS	10 to 30	±2.5	-30 to +85	+2.3 to +5.5	VC	TC	42												
DSB535SC						9.6 to 40	±1.0 ±0.5			-40 to +85			VC											
DSA535SD													IE TC											
DSB535SD		5.0	3.2	1.2	CS or CMOS	10 to 40	±0.28	-40 to +85	+2.7 to +5.5	VC Stb	IE TC	43												
DSA535SG										5.0			3.2	1.5	Stb									
DSB535SG																								

Clock Oscillators (SPXO)

Type	Actual Size	Size (mm)			Output	Frequency Range (MHz)	FrequencyTolerance (×10 ⁻³) (Includes frequency tolerance at room temperature.)	Operating Temperature Range (°C)	Supply Voltage (V)	Current Consumption (mA)	Recommended Application	Catalog Page
		L	W	H (max.)								
*DS1008JN		1.05	0.85	0.24	CMOS	1.0 to 100	±50	-40 to +125	+0.8 to +1.6	1.9	CE TC	8
*DS1008JS		1.05	0.85	0.24	CMOS	1.0 to 100	±50	-40 to +125	+1.6 to +3.3	1.8	CE TC	9
DSO1612AR		1.6	1.2	0.58	CMOS	0.584375 to 80	±50 ±100	-40 to +85 -40 to +125	+1.6 to +3.6	1.4 to 3.8	CE TC AE	54 87
DSO211AR		2.0	1.6	0.8	CMOS	0.4 to 80	±50 ±100	-40 to +85 -40 to +125	+1.6 to +3.6	1.0 to 5.0 2.5 to 6.0	CE TC AE	55 87
DSO221SR		2.5	2.0	0.895	CMOS	0.2 to 167	±50 ±100	-40 to +85 -40 to +125	+1.6 to +3.6	1.0 to 8.0 2.5 to 8.0	CE TC AE	56, 57 88
DSO321SR		3.2	2.5	1.2								
DSO531SR		5.0	3.2	1.2								
DSO751SR		7.3	4.9	1.7								
DSO211AB		2.0	1.6	0.8	CMOS	3.25 to 52	±50	-40 to +85	+5.0	8.0	CE IE	53
DSO221SBM		2.5	2.0	0.895						4.0 to 8.0		
DSO321SBM		3.2	2.5	1.2		+3.3			2.0 to 6.0			
DSO321SBN						+5.0			4.0 to 8.0			
DSO321SVN		5.0	3.2	1.2		+3.3			2.0 to 6.0			
DSO531SBM						+5.0			4.0 to 8.0			
DSO531SBN						+3.3			2.0 to 6.0			
DSO531SVN						+5.0			4.0 to 8.0			
DSO751SBM		7.3	4.9	1.7		+3.3			2.0 to 6.0			
DSO751SBN												
DSO751SVN												
DSO211AN		2.0	1.6	0.8	CMOS	9.6 to 80	±50	-40 to +85	+0.8 to +1.6	1.2 to 6.8	CE TC	52
DSO221SN		2.5	2.0	0.895		1.5625 to 100						
DSO321SN		3.2	2.5	1.2	CMOS		1.0 to 125	±50	-40 to +125	+1.6 to +3.6	1.7 to 10.0	AE
DSO211SX		2.0	1.6	0.8								
DSO221SX		2.5	2.0	0.9	CMOS	1.0 to 125	±50	-40 to +125	+1.6 to +3.6	1.7 to 10.0	CE TC	58
DSO211SXF		2.0	1.6	0.8								
DSO221SXF		2.5	2.0	0.9	CMOS	1.049 to 8.5	±35 ±50	-40 to +85	+1.6 to +3.6	0.7	CE TC AE	59 91
DSO221SY		2.5	2.0	0.895								
DSO321SY		3.2	2.5	1.2	CMOS	1.049 to 8.5	±35 ±50	-40 to +85	+1.6 to +3.6	0.7	CE TC AE	59 91
DSO753HV		7.0	5.0	2.2	CMOS	170 to 230	±50	-20 to +70	+3.3	70	IE TC	63
DLO555MB	—	5.0	4.0	5.0	CMOS	0.75 to 54	±50, ±100	-10 to +85	+1.6 to +5.5	8.0	CE IE	64

* Arkh.3G series have received the Good Design Award 2019.

MEMS Oscillators



Scan the QR code to check the table of contents page of our web site “MEMS Oscillators” (URL: <http://www.kds.info/class/4-l-mems/>).

Icons **CE** Consumer Equipment **IE** Industrial Equipment **TC** Mobile Phone, Wireless Communication

kHz Band MEMS Oscillator

Type	Actual Size	Size (mm)			Output	Frequency Range (kHz)	Frequency Characteristics over Temperature (×10 ⁻⁶)	Operating Temperature Range (°C)	Supply Voltage (V)	Current Consumption (μA typ.)	Recommended Application	Catalog Page
		L	W	H (max.)								
MO1532		1.5	0.8	0.6	NanoDrive™ LVC MOS	32.768	±100	-40 to +85	+1.2 to +3.63	+0.90	 	112
MO1534		1.5	0.8	0.6	NanoDrive™ LVC MOS	0.001 to 32.768	±100	-40 to +85	+1.2 to +3.63	+0.90	 	113
		2.0	1.2	0.6								
MO1569		1.5	0.8	0.6	LVC MOS	0.001 to 462	±50	-40 to +85	+1.62 to +3.63	+2.0 μA (100kHz)	 	
MO1630		2.0	1.2	0.6	LVC MOS	16.384, 32.768	±150	-40 to +105	+1.5 to +3.63	+1.00	 	112

kHz Band Temperature Compensated MEMS Oscillators

Type	Actual Size	Size (mm)			Output	Frequency Range (kHz)	Frequency Characteristics over Temperature (×10 ⁻⁵)	Operating Temperature Range (°C)	Supply Voltage (V)	Current Consumption (μA typ.)	Recommended Application	Catalog Page
		L	W	H (max.)								
MO1552		1.5	0.8	0.6	NanoDrive™ LVCMOS	32.768	±5/±10/±20 over temp.	-40 to +85	+1.5 to +3.63	+0.99	 	112
MO1566					±3 all inclusive		+1.8		+4.5			
MO1568					±5 all inclusive After Overmold/Underfill							
MO1576								LVC MOS	0.001 to 2000	±5 all inclusive	-40 to +85	+1.62 to +3.63

Low Power MEMS Oscillators

Type	Actual Size	Size (mm)			Output	Frequency Range (MHz)	Frequency Tolerance ($\times 10^{-6}$) (Includes frequency tolerance at room temperature.)	Operating Temperature Range (°C)	Supply Voltage (V)	Current Consumption (mA typ.)	Recommended Application	Catalog Page
		L	W	H (max.)								
MO8008		2.0 2.5 3.2	1.6 2.0 2.5	0.8 0.8 0.8	LVC MOS	1.0 to 110	$\pm 20, \pm 25, \pm 50$	-40 to +85	+1.62 to +1.98, +2.25 to +3.63	+3.1 to +5.4 (+0.6 to +1.0 μ A stby)	 	114
MO8009		5.0 7.0	3.2 5.0	0.8 1.0		115 to 137						
MO8021		1.5	0.8	0.6	LVC MOS	1.0 to 26	± 100	-40 to +85	+1.62 to +1.98, +2.25 to +3.63	+0.006 to +0.34 (+0.9 μ A stbv)	 	113

MEMS Oscillators for Clock

Type	Actual Size	Size (mm)			Output	Frequency Range (MHz)	Frequency Tolerance (×10 ⁻⁶) (Includes frequency tolerance at room temperature.)	Operating Temperature Range (°C)	Supply Voltage (V)	Current Consumption (mA typ.)	Recommended Application	Catalog Page
		L	W	H (max.)								
MO2001		2.9	2.8	1.3	LVCMOS	1.0 to 110	±20, ±25, ±50	-40 to +85	+1.62 to +1.98, +2.25 to +3.63	+3.6 to +5.4 (+0.6 to +1.0 μA stby)	 	114
MO2002						115 to 137						

Low Phase Jitter MEMS Oscillators

Type	Actual Size	Size (mm)			Output	Frequency Range (MHz)	Frequency Tolerance (×10 ⁻⁴) (Includes frequency tolerance at room temperature.)	Operating Temperature Range (°C)	Supply Voltage (V)	Current Consumption (mA typ.)	Recommended Application	Catalog Page
		L	W	H (max.)								
MO8208		2.7	2.4	0.8	LVC MOS	1.0 to 80	±10, ±20, ±25, ±50	-40 to +85	+2.25 to +3.63	+29 to +36 (+10 µA stby)	 	116
MO8209		5.0	3.2	0.8		80 to 220						
MO9120		3.2	2.5	0.8	LVPECL LVDS	25 to 212.5	±10, ±20, ±25, ±50	-40 to +85	+2.25 to +3.63	+54 to +69	 	
MO9121		5.0	3.2	0.8		1.0 to 220						
MO9122		7.0	5.0	1.0		220 to 625						
MO9365		3.2	2.5	0.8	LVPECL LVDS HCSL	32 Standard Frequencies	±10, ±20, ±25, ±50	-40 to +105	+2.25 to +3.63	+76 to +84	 	115
MO9366		5.0	3.2	0.8		1.0 to 220						
MO9367		7.0	5.0	1.0		220 to 725						



General Manufacturer of Quartz Devices

株式会社 大真空

DAISHINKU CORP.

<http://www.kds.info>

本社：〒675-0194
兵庫県加古川市平岡町新在家1389
(079)426-3211 / FAX.(079)426-8618
営業本部/西日本営業所：TEL.(079)425-3161 / FAX.(079)425-1134
韓国営業所：TEL.(079)425-3141 / FAX.(079)425-1134
東京営業所：〒140-0013
東京都品川区南大井3-28-3 大森プラザビル6F
TEL.(03)6404-3900 / FAX.(03)6404-3901
名古屋営業所：〒461-0001
愛知県名古屋市中区泉1-13-25 セントラルアートビル7F
TEL.(052)973-1661 / FAX.(052)973-1662

HEAD OFFICE

1389 Shinzaike, Hiraoka-cho, Kakogawa, Hyogo 675-0194 Japan
TEL:+81-79-426-3211 FAX:+81-79-426-8618

Marketing & Sales Div./Western Japan Sales Office

TEL:+81-79-425-3161 FAX:+81-79-425-1134

KOREA SALES SEC.

TEL:+81-79-425-3141 FAX:+81-79-425-1134

TOKYO SALES OFFICE

6F, 3-28-3 Minamioi, Shinagawa-ku, Tokyo 140-0013 Japan
TEL:+81-3-6404-3900 FAX:+81-3-6404-3901

NAGOYA SALES OFFICE

7F, 1-13-25 Izumi, Higashi-ku, Nagoya, Aichi 461-0001 Japan
TEL:+81-52-973-1661 FAX:+81-52-973-1662

DAISHINKU (AMERICA) CORP.

17800 Newhope Street Suite F, Fountain Valley, CA 92708 U.S.A.
TEL:+1-714-641-2600 FAX:+1-714-641-2606

DAISHINKU (AMERICA) CORP. San Jose Office

2033 Gateway Place, Suite 500 San Jose, CA 95110 U.S.A.
TEL:+1-678-575-8795

DAISHINKU (AMERICA) CORP. Detroit Office

42705 Grand River, Suite 201, Novi, MI 48375-4175 U.S.A.
TEL:+1-714-600-0034

DAISHINKU (DEUTSCHLAND) GmbH

Wiesenstrasse 70A2 40549 Düsseldorf, F.R. Germany
TEL:+49-211-506530-0 FAX:+49-211-596054

U.K. REPRESENTATIVE OFFICE OF DAISHINKU (DEUTSCHLAND) GmbH

Brook House, 54a Cowley Mill Road, Uxbridge, Middlesex, UB8 2QE, U.K.
TEL:+44-20-3405-4913

DAISHINKU (SINGAPORE) PTE. LTD.

12 Little Road, #03-01, Lian Cheong Industrial Building, Singapore 536986
TEL:+65-6286-7646 FAX:+65-6382-5394

DAISHINKU (THAILAND) CO., LTD.

29 Bangkok Business Center Building, 11th Floor, Room 1101, Sukhumvit 63 Road (Ekamai), Klongton-Nua, Watthana, Bangkok 10110 Thailand
TEL:+66-2-391-3291 FAX:+66-2-391-3292

DAISHINKU (HK) LTD.

Units 1-2, 22/F., Futura Plaza, 111-113 How Ming Street, Kwun Tong, Kowloon, Hong Kong
TEL:+852-2330-2541 FAX:+852-2765-6673

SHANGHAI DAISHINKU INTERNATIONAL TRADING CO., LTD.

906, 1#, No.641, Tianshan Road, Shanghai 200336 China
TEL:+86-21-6236-8701 FAX:+86-21-6236-8707

SHANGHAI DAISHINKU INTERNATIONAL TRADING CO., LTD.

Suzhou Branch

Room 1209, Gold River International Center, No.88 Shi Shan Road, Suzhou New District, Jiangsu, China 215011
TEL:+86-512-6827-0470 FAX:+86-512-6827-0455

SHANGHAI DAISHINKU INTERNATIONAL TRADING CO., LTD.

Shenzhen Branch

Room 2404, Tower1, Huarong Building, No.178, Min Tian Road, Futian, Shenzhen, Guangdong 518048 China
TEL:+86-755-8831-6813 FAX:+86-755-8831-6812

SHANGHAI DAISHINKU INTERNATIONAL TRADING CO., LTD.

Xi An Branch

Room 1533, Building A, Hua Qi International Plaza, No.99, Middle Chang An Road, Yan Ta District, Xi An, 710043, P.R. China
TEL:+86-29-8154-1730 FAX:+86-29-8154-1731

HARMONY ELECTRONICS CORP. TAIPEI SALES OFFICE

2F, 409, Sec.2, Tiding Blvd., Neihu, Taipei, Taiwan
TEL:+886-2-2658-8883 FAX:+886-2-2658-8683

