

Synthasystem Power Matrix

Synthasystem Power Matrix				Module																			
Requires Power PCB?				VCO A Quad	VCO B (a) Sin/Tri	VCO B (b) Sq/Saw	VCF	TEG	VCA/Mixer	VPM	SEQ	VCTG	DVF	DSH	Noise	RM	Phaser	FD	SI	PS	TM	IA	
Manuf PN	Manuf	Description	Mouser PN	X	X	X	X	X	X		X							X					
PCB Connectors																							
10-89-7101	Molex	Headers & Wire Housings VERT BRKAWAY HDR 10P dual row tin (for Doepfer 12V supply)	538-10-89-7101	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
OR																							
	Molex	4 pin .0156 MTA header (for MOTM/Frac 15V supply)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3-640441-5	TE Connectivity	Headers & Wire Housings CLOSED W/O TABS 5P white tin 24 AWG	571-3-640441-5	2	2	2	2	5	2														
640456-5	TE Connectivity	Headers & Wire Housings Headers & Wire Housings FRICTION LCK HDR 5P Straight Post tin	571-6404565	2	2	2	2	2	2		2								2				
Basic Power Circuit Components																							
EEA-GA1E100B	Panasonic	Aluminum Electrolytic Capacitors -Leaded 25volts 10uF 4X7mm L/S=5.0mm Ammo Crmp	667-EEA-GA1E100B	2	2	2	2	1	2	2	1	2	2	2	2	2	2	2	1	2	2	2	2
147-72-104-RC	Xicon	Multilayer Ceramic Capacitors (MLCC) - Leaded Axial 0.1uF 50volts Z5U 10%	147-72-104-RC	2	2	2	2	1	2	2	1	2	2	2	2	2	2	2	1	2	2	2	2
1N4004	Fairchild Semiconductor	Rectifiers Rectifiers Vr/50V Io/1A T/R	512-1N400	2	2	2	2	1	2	2	1	2	2	2	2	2	2	2	1	2	2	2	2
BL01RN1A2A2B	Murata	EMI Filter Beads, Chokes & Arrays EMI Filter Beads, Chokes & Arrays AXIAL-BENT 1 BEAD	81-BL01RN1A2A2B	2	2	2	2	1	2	2	1	2	2	2	2	2	2	2	1	2	2	2	2
+12V Regulation (for 15V power supplies)																							
TAP105K025SCS	AVX	Tantalum Capacitors - Solid Leaded Tantalum Capacitors - Solid Leaded 25V 1uF 10%	TAP105K025SCS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3296Y-1-104LF	Bourns	Trimmer Resistors - Through Hole 3/8 100kohms Sealed Vertical Adjust	652-3296Y-1-104LF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LM317T	Fairchild Semiconductor	Linear Regulators - Standard Linear Regulators - Standard 1.5A Pos Adj Vol Reg	512-LM317T	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
576802B00000G	Aavid Thermalloy	Heat Sinks Heat Sinks TO-220 VERT 27.3 TR SLIM PLUG-IN NO TABS	532-576802B00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SSL-LX3044USBD	Lumex	Standard LED - Through Hole Standard LED - Through Hole 3mm Short Lens Blue	696-SSL-LX3044USBD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
271-1K-RC	Xicon	Metal Film Resistors - Through Hole Metal Film Resistors - Through Hole 1kohms 1% 50PPM	271-1K-RC	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
271-10K-RC	Xicon	Metal Film Resistors - Through Hole Metal Film Resistors - Through Hole 10kohms 1% 50PPM	271-10K-RC	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10V Regulation (for 15V and 12V supplies)																							
TAP105K025SCS	AVX	Tantalum Capacitors - Solid Leaded Tantalum Capacitors - Solid Leaded 25V 1uF 10%	TAP105K025SCS	1	1	1	1		1	1	1	1	1	1	1		1	1		1	1	1	1
3296Y-1-104LF	Bourns	Trimmer Resistors - Through Hole 3/8 100Kohms Sealed Vertical Adjust	652-3296Y-1-104LF	1	1	1	1		1	1	1	1	1	1	1		1	1		1	1	1	1
LM337T	Fairchild Semiconductor	Linear Regulators - Standard Linear Regulators - Standard 1.5A Neg Adj Vol Reg	512-LM337T	1	1	1	1		1	1	1	1	1	1	1		1	1		1	1	1	1
576802B00000G	Aavid Thermalloy	Heat Sinks Heat Sinks TO-220 VERT 27.3 TR SLIM PLUG-IN NO TABS	532-576802B00	1	1	1	1		1	1	1	1	1	1	1		1	1		1	1	1	1
SSL-LX3044USBD	Lumex	Standard LED - Through Hole Standard LED - Through Hole 3mm Short Lens Blue	696-SSL-LX3044USBD	1	1	1	1		1	1	1	1	1	1	1		1	1		1	1	1	1
271-1K-RC	Xicon	Metal Film Resistors - Through Hole Metal Film Resistors - Through Hole 1kohms 1% 50PPM	271-1K-RC	1	1	1	1		1	1	1	1	1	1	1		1	1		1	1	1	1
271-10K-RC	Xicon	Metal Film Resistors - Through Hole Metal Film Resistors - Through Hole 10kohms 1% 50PPM	271-10K-RC	1	1	1	1		1	1	1	1	1	1	1		1	1		1	1	1	1
Power Filtering Components																							
EEU-FR1H151	Panasonic	Aluminum Electrolytic Capacitors - Leaded 50VDC 150uF 10x12mm L55mm	667-EEU-FR1H151	2	2	2	2		2						1								
EEA-GA1V470B	Panasonic	Aluminum Electrolytic Capacitors - Leaded Aluminum Electrolytic Capacitors - Leaded 35volts 47uF 8X7mm L/S=5.0mm Ammo Crmp	667-EEA-GA-1V470													2							
271-22-RC	Xicon	Metal Film Resistors - Through Hole Metal Film Resistors - Through Hole 22ohms 1% 50PPM	271-22-RC	2	2	2																	
271-300-RC	Xicon	Metal Film Resistors - Through Hole Metal Film Resistors - Through Hole 300ohms 1% 50PPM	271-300-RC				1																
271-68-RC	Xicon	Metal Film Resistors - Through Hole Metal Film Resistors - Through Hole 68ohms 1% 50PPM	271-68-RC				1								1	2							
271-360-RC	Xicon	Metal Film Resistors - Through Hole Metal Film Resistors - Through Hole 360ohms 1% 50PPM	271-360-RC						2														
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