

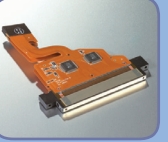



		Universal Graphics			Specialty Printing
					
		Galaxy 256/30 AAA 256/50 AAA 256/80 AAA	Nova 256/80 AAA	S-Class SE-128 AA SM-128 AA SL-128 AA	Galaxy 256/30 HM 256/80 HM
OPERATING PARAMETERS	UNIT OF MEASURE				
Number of addressable jets		256	256	128	256
Nozzle spacing	µm [in.]	254 [0.010]	279 [0.011]	508 [0.020]	254 [0.010]
Calibrated drop size	picoliters	28, 50, 80	75	30, 50, 80	28, 80
Adjustment range for drop size	picoliters	25 - 85	70 - 85	25 - 90	25 - 85
Drop size variation, 1 sigma	percent	5	5	4	5
Jet straightness, 1 sigma	mrad [deg.]	5 [0.29]	4 [0.23]	3 [0.17]	5 [0.29]
Nominal drop velocity	m/sec	7 - 8	8	8	8
Drop velocity variation, 1 sigma	percent	5	5	5	5
Operating temperature maximum	°C [°F]	90 [194]	90 [194]	90 [194]	125 [257]
Fluid viscosity range (at jetting temp.)	cP	8 - 20	8 - 20	8 - 20	8 - 20
Compatible jetting fluids		Organic solvent, UV curable, aqueous inks	Organic solvent, UV curable, aqueous inks	Organic solvent, UV curable	Hot melt
Maximum operating frequency	kHz	20	20	20	12
PHYSICAL CHARACTERISTICS	UNIT OF MEASURE				
Nozzle line length	mm [in.]	64.8 [2.55]	71.1 [2.80]	64.5 [2.54]	64.8 [2.55]
Length x width x height	mm [in.]	102 x 25 x 102 [4 x 1 x 4]	102 x 25 x 112 [4 x 1 x 4.4]	102 x 5 x 110 [4 x 0.2 x 4.3]	102 x 6.4 x 111 [4 x 0.25 x 4.3]
Weight	grams [oz]	125 [4.41]	113 [3.98]	25 [0.88], 35 [1.23]	640 [22.57]
PRODUCT FEATURES					
On-head reservoir, ink sensor, lung		Optional	Optional	Optional	Optional
Head interface board		Optional	Optional	Optional	Optional
Heater and thermistor		Optional	Optional	Optional	N/A

N/A = Not Applicable  
N/I = Not Included  
\*r = recommended

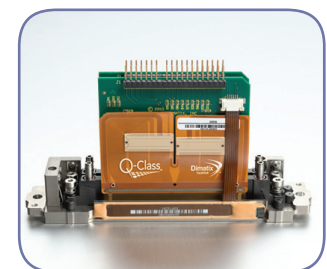
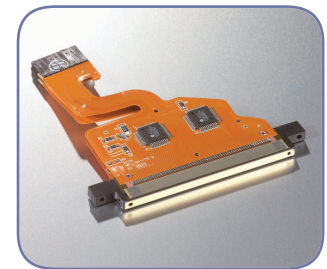
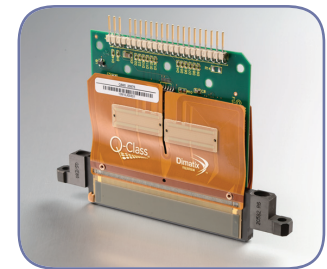
Product data presented above are for guideline purposes only. For design and engineering work using this product, please contact Dimatix Technical Support for the appropriate Product Manual containing full Product Specifications.

PDS00040 (JA)  
PDS00041 (JA)  
PDS00042 (PH)  
PDS00043 (JA)  
PDS00044 (PH)  
PDS00045 (PH)

PDS00024 (JA)  
PDS00031 (PH)

PDS00008  
PDS00009  
PDS00016

PDS00014  
PDS00026














**FUJIFILM**



# Printhead Reference Chart



		Universal Graphics		High Performance Graphics							
		 <b>Polaris</b> PQ-512/15 AAA PQ-512/35 AAA PQ-512/85 AAA	 <b>Polaris</b> PQ-512/15 AAA-2C PQ-512/35 AAA-2C PQ-512/85 AAA-2C	 <b>Sapphire</b> QS-256/10 AAA QS-256/30 AAA QS-256/80 AAA	 <b>Emerald</b> QE-256/30 AAA QE-256/80 AAA	 <b>StarFire</b> SG-1024/M-C   SG-1024/M-C/2-C SG-1024/S-C   SG-1024/S-C/2-C SG-1024/M-A   SG-1024/M-A/2-C SG-1024/S-A   SG-1024/S-A/2-C	 <b>Samba</b> GL3 Printhead				
OPERATING PARAMETERS	UNIT OF MEASURE										
Number of addressable jets		512	512	256	256	1024	2048				
Nozzle spacing	µm [in.]	1-color: 127 [0.005] [200]	2-color: 254 [0.010] [100]	254 [0.010]	254 [0.010]	63.5 [0.0025] 1-color [400 dpi]   2-color [200 dpi]	0.0212 [0.000833] [1200 dpi]				
Number of nozzle rows		4	4	1	1	8	32				
Calibrated drop size	picoliters	15   35   80	15   35   80	10   30   80	30   80	Fluid Dependent	Fluid Dependent				
Adjustment range for drop size	picoliters	15 - 30   35 - 80   80 - 150	15 - 30   35 - 80   80 - 150	10 - 30   30 - 80   80 - 200	30 - 80   80 - 200	26 - 65	2.4 - 13.2				
Jet straightness, 1 sigma	mrad [deg.]	2 [0.11]	2 [0.11]	1.5 [0.086]	1.5 [0.086]	1.5 [0.086]	3.0 [0.172]				
Nominal drop velocity	m/sec	8	8	8	8	8	9				
Drop velocity variation, 1 sigma	percent	5	5	4	4	5	Fluid Dependent				
Operating temperature maximum	°C [°F]	60 [140]	60 [140]	90 [194]	90 [194]	up to 50 [122]	up to 60 [140]				
Fluid viscosity range (at jetting temp.)	cP	8 - 20 (10 - 14 *r)	8 - 20 (10 - 14 *r)	8 - 20 (10 - 14 *r)	8 - 20 (10 - 14 *r)	8 - 20 (10 - 14 *r)	2 - 10 (3 - 7 *r)				
Compatible jetting fluids		Organic solvent, UV curable, aqueous inks	Organic solvent, UV curable, aqueous inks	Organic solvent, UV curable, aqueous inks	Organic solvent, UV curable, aqueous inks	M-C/S-C: Oil-based ceramics ink M-A/S-A: Organic solvent, UV curable, aqueous inks	Organic solvent, UV curable, aqueous inks, latex				
Maximum operating frequency	picoliters @ kHz	15 pl @ 40 kHz   35 pl @ 30 kHz   85 pl @ 20 kHz	15 pl @ 40 kHz   35 pl @ 30 kHz   85 pl @ 20 kHz	10 pl @ 50 kHz   30 pl @ 33 kHz   80 pl @ 20 kHz	30 pl @ 33 kHz   80 pl @ 20 kHz	M-C/S-C: 26 pl @ 35 kHz   M-A: 30 pl @ 30 kHz	2.4 pl @ 100 kHz				
		30 pl @ 25 kHz   80 pl @ 13 kHz   150 pl @ 10 kHz	30 pl @ 25 kHz   80 pl @ 13 kHz   150 pl @ 10 kHz	30 pl @ 16 kHz   80 pl @ 12 kHz   200 pl @ 8 kHz	80 pl @ 12 kHz   200 pl @ 8 kHz	M-C/S-C: 65 pl @ 14 kHz   M-A: 80 pl @ 10 kHz					
PHYSICAL CHARACTERISTICS	UNIT OF MEASURE										
Nozzle line length	mm [in.]	64.77 [2.550]	64.77 [2.550]	64.77 [2.550]	64.77 [2.550]	64.77 [2.550]	42.69 [1.68]				
Length x width x height	mm	150.25 x 29.5 x 84.5	150.25 x 29.5 x 84.5	116.5 x 8 x 84.5	116.5 x 8 x 84.2	126 x 40 x 150	17.5 x 43.5 x 83				
	[in.]	[5.92 x 1.16 x 3.33]	[5.92 x 1.16 x 3.33]	[4.59 x 0.32 x 3.33]	[4.59 x 0.32 x 3.31]	[4.96 x 1.57 x 5.90]	[0.7 x 1.7 x 3.27]				
Weight	grams [oz]	160 [5.6]	160 [5.6]	42.5 [1.5]	42.5 [1.5]	320 [12]	230 [8.1]				
PRODUCT FEATURES											
On-head reservoir, ink sensor, lung		N/I	N/I	N/I	N/I	N/I	N/I				
Built in heater or thermistor		Frame heaters & thermistors	Frame heaters & thermistors	Thermistor	Thermistor	Thermistor	Thermistor				
VersaDrop compatibility (beyond native drop)		1 and 2-color operation; VersaDrop – binary with multipulse	1 and 2-color operation; VersaDrop – binary with multipulse	VersaDrop – binary & grayscale	VersaDrop – binary & grayscale	VersaDrop – binary & grayscale	VersaDrop – binary & grayscale				
Nozzle plate technology		Metal	Metal	Silicon	Metal	Metal	Silicon				
N/A = Not Applicable N/I = Not Included *r = recommended	<i>Product data presented above are for guideline purposes only. For design and engineering work using this product, please contact Dimatix Technical Support for the appropriate Product Manual containing full Product Specifications.</i>	 <b>Polaris</b> <i>Easy to use</i>		 <b>Sapphire</b> <i>Best-in-class jetting performance</i>		 <b>Emerald</b> <i>Broadest operational latitude</i>		 <b>StarFire</b> <i>Easy to integrate</i>		 <b>Samba</b> <i>Breakthrough Quality &amp; Productivity</i>	
		PDS00070 PDS00069 PDS00071	PDS00074 PDS00075 PDS00076	PDS00059 PDS00054 PDS00065	PDS00067 PDS00068	PDS00078 PDS00098 PDS00089 PDS00094 PDS00095 PDS00102 PDS00097 PDS00096	PDS00105				