





ST 300/ST 325/ST 350 Hot Air Nozzles

BGA Nozzles	Component	BGA Size (Nominal)	Part Number
	BGA-204/225/256/272/292/320/324	27mm (1.1") L x 27mm (1.1") W	4028-5001
	BGA-169/168	23mm (0.91") L x 23mm (.91") W	4028-5002
	BGA-313/352	35mm (1.38") L x 35mm (1.38") W	4028-5003
	BGA-144	13mm (0.51") L x 13mm (0.51") W	4028-5004
	BGA-121/196	15mm (0.59") L x 15mm (0.59") W	4028-5005
	BGA-86	16.25mm (0.64") L x 17.75mm (0.70") W	4028-5006
	BGA-68	13.45mm (0.53") L x 14.97mm (0.59") W	4028-5007
	BGA-32	10.42mm (0.41") L x 10.42mm (0.41") W	4028-5008
	BGA-40/44	11.97mm (0.47") L x 13.21mm (0.52") W	4028-5009
	BGA-18	8.64mm (0.34") L x 8.90mm (0.35") W	4028-5010
	BGA-357	25mm (0.98") L x 25mm (0.98") W	4028-5011
	BGA-421/432/736	40mm (1.57") L x 40mm (.57") W	4028-5012
	BGA-560	42.5mm (1.67") L x 42.5mm (1.67") W	4028-5013
	BGA-240/304/432	31mm (1.22") L x 31mm (1.22") W	4028-5014
	BGA-256	17mm (0.67") L x 17mm (0.67") W	4028-5015
	BGA-252/255/256	21mm (0.83") L x 21mm (0.83") W	4028-5016
	BGA (Short Adpt.)	21mm (0.83") L x 21mm (0.83") W	4028-5017
	BGA-479/493/584	37.5mm (1.48") L x 37.5mm (1.48") W	4028-5018
	BGA-96/121	19mm (0.75") L x 19mm (0.75") W	4028-5019
	BGA-240/324	32mm (1.26") L x 32mm (1.26") W	4028-5020
	BGA-256/400	29mm (1.14") L x 29mm (1.14") W	4028-5021
	BGA-100	16mm (0.63") L x 16mm (0.63") W	4028-5022
	BGA-119	22mm (0.87") L x 14mm (0.55") W	4028-5023
	BGA-169	19.25mm (0.76") L x 19.25mm (0.76") W	4028-5024
	BGA-196	18.5mm (0.73") L x 18.5mm (0.73") W	4028-5025
	BGA-240	26.4mm (1.04") L x 26.4mm (1.04") W	4028-5026
	BGA-256	30mm (1.18") L x 30mm (1.18") W	4028-5027
	BGA-475	25mm (0.98") L x 32.3mm (1.27") W	4028-5028
	BGA-521	43mm (1.69") L x 43mm (1.69") W	4028-5029
	BGA-540	44mm (1.73") L x 44mm (1.73") W	4028-5030
	BGA-169	22mm (0.87") L x 22mm (.87") W	4028-5032
	BGA-361	33mm (1.29") L x 33mm (1.29") W	4028-5033
	BGA-720	47.5mm (1.87") L x 47.5mm (1.87") W	4028-5034
BGA-303	21mm (0.83") L x 25mm (0.98") W	4028-5035	
BGA (Short Adpt.)	17mm (0.67") L x 17mm (0.67") W	4028-5036	
BGA (Small Cup)	21mm (0.83") L x 21mm (0.83") W	4028-5037	
Assembly	10mm (0.39") L x 13mm (0.51") W	4028-5038	
Micro BGA-48	7.75mm (0.31") L x 5.6mm (0.22") W	4028-5501	
Micro BGA-48	7.85mm (0.31") L x 6.40mm (0.25") W	4028-5502	
Micro BGA	7mm (0.28") L x 4.5mm (0.18") W	4028-5503	
Calibration Nozzle	27mm (1.1") L x 27mm (1.1") W	4028-2010-P1	

Hot Air System Nozzles

Pattern Nozzles	Component Type	Jet Spacing	Jet Length	Part Number
	SOIC- 8 (JEDEC)	4.1mm (0.16")	6.1mm (0.24")	4028-4001-P1
	SOIC-14/16 (JEDEC)	4.1mm (0.16")	10.9mm (0.43")	4028-4002-P1
	SOICL-16 (JEDEC)	7.9mm (0.31")	10.9mm (0.43")	4028-4003
	SOICL-20 (JEDEC)	7.9mm (0.31")	13.5mm (0.53")	4028-4004
	SOICL-24 (JEDEC)	7.9mm (0.31")	16mm (0.63")	4028-4005
	SOICL-28 (JEDEC)	7.9mm (0.31")	18.5mm (0.73")	4028-4006
	SOICL-32 (JEDEC)	11.68mm (0.46")	20.83mm (0.82")	4028-4007
	TSOP-48 (Type I)	18.6mm (0.734")	11.68mm (0.46")	4028-4505
	TSOP-32/40/44/50 (Type II)	10.4mm (0.41")	21.35mm (0.84")	4028-4506
Single Jet Nozzles	Shape of Jet Tube	Nozzle Size (Nominal)		Part Number
	Curved, Round	3.0mm diameter (0.1" diameter)		4028-1001-P1
	Curved, Round	5.0mm diameter (0.2" diameter)		4028-1002-P1
	Curved, Round	8.0mm diameter (0.3" diameter)		4028-1003-P1
	Straight, Round	3.0mm diameter (0.01" diameter)		4028-1011-P1
	Straight, Round	5.0mm diameter (0.2" diameter)		4028-1012-P1
	Straight, Round	8.0mm diameter (0.3" diameter)		4028-1013-P1
	Flat Jet	13.21mm length (0.52")		4028-1021-P1
	Flat Jet	23.37mm length (0.92")		4028-1022-P1
Box Nozzles	Component Type	Nozzle Size (Inside Dimensions)		Part Number
	PLCC	32.5mm (1.28") L x 46.5mm (1.83") W		4028-1501
	PLCC-18 (Non Baffled)	8.5mm (0.34") L x 12.1mm (0.48") W		4028-2001
	PLCC-20 (Non Baffled)	10.2mm (0.40") L x 10.2mm (0.40") W		4028-2002
	PLCC-28 (Non Baffled)	12.8mm (0.50") L x 12.8mm (0.50") W		4028-2003
	PLCC-32 (Non Baffled)	12.8mm (0.50") L x 15.3mm (0.60") W		4028-2004
	PLCC-44 (Non Baffled)	17.9mm (0.70") L x 17.9mm (0.70") W		4028-2005
	PLCC-52	20.4mm (0.80") L x 20.4mm (0.80") W		4028-2006
	PLCC-68	25.5mm (1.01") L x 25.5mm (1.01") W		4028-2007
	PLCC-84	30.6mm (1.20") L x 30.6mm (1.20") W		4028-2008
	PLCC-100	38.9mm (1.53") L x 38.9mm (1.53") W		4028-2009
	QFP-80/100	18.1mm (0.71") L x 24.1mm (0.95") W		4028-2501
	QFP-64/80 (Non Baffled)	17.0mm (0.67") L x 17.0mm (0.67") W		4028-2502
	QFP-132	26.9mm (1.06") L x 26.9mm (1.06") W		4028-2503
	QFP-160	31.9mm (1.26") L x 31.9mm (1.26") W		4028-2504
	QFP-208	31.5mm (1.24") L x 31.5mm (1.24") W		4028-2505
	QFP-240	34.6mm (1.36") L x 34.6mm (1.36") W		4028-2506
	BQFP-100	23.5mm (0.925") L x 23.5mm (0.925") W		4028-2507
	BQFP-84	20.9mm (0.8") L x 20.9mm (0.8") W		4028-2508
	BQFP-132	27.1mm (1.07") L x 27.1mm (1.07") W		4028-2602
	TQFP-32 (Non Baffled)	11.5mm (0.453") L x 11.5mm (0.453") W		4028-3002
TQFP-120 (Non Baffled)	15.5mm (0.610") L x 15.5mm (0.610") W		4028-3004	