



SYMBOL	MILLIMETERS			NOTE
	MIN.	NOM.	MAX.	
A	\approx	\approx	2.00	3
A ₁	0.40	0.50	0.60	
D/E	19.00 BSC			2
D ₁ /E ₁	17.00 REF			
e	1.00 BSC			
phi _b	0.50	0.60	0.70	
aaa	\approx	\approx	0.20	
ccc	\approx	\approx	0.35	
ddd	\approx	\approx	0.30	
eee	\approx	\approx	0.10	
M	18			

$\oplus \begin{matrix} \phi ddd \text{ (M)} & C & A & B \\ \phi eee \text{ (M)} & C & & \end{matrix}$

FG320 - 63/37 (Sn/Pb) Solder Balls
 FGG320 - Sn/Ag/Cu Solder Balls

NOTES:

1. ALL DIMENSIONS AND TOLERANCES CONFORM TO ANSI Y14.5M-1994.
2. SYMBOL 'M' IS THE BALL MATRIX SIZE
3. NOMINAL DIMENSION IS TYPICALLY 1.86 mm
4. CONFORMS TO JEDEC MS-034-AAG-1

320-BALL FINE-PITCH BGA (FG320/FGG320)