



CS280 - 63/37 (Sn/Pb) Solder Balls  
 CSG280 - Sn/Ag/Cu Solder Balls

SYMBOL	MILLIMETERS		
	MIN.	NOM.	MAX.
A	$\sim$	$\sim$	1.20
A <sub>1</sub>	0.20	$\sim$	$\sim$
A <sub>2</sub>	0.65	$\sim$	$\sim$
D/E	16.00 BSC		
D <sub>1</sub> /E <sub>1</sub>	14.40 BSC		
e	0.80 BSC		
$\phi_b$	0.40	0.45	0.50
bbb	$\sim$	$\sim$	0.10
ccc	$\sim$	$\sim$	0.12
ddd	$\sim$	$\sim$	0.15
eee	$\sim$	$\sim$	0.08
M	19		

**NOTES:**

1. ALL DIMENSIONS AND TOLERANCES CONFORM TO ASME Y14.5M-1994
  2. SYMBOL "M" IS THE PIN MATRIX SIZE.
  3. CONFORMS TO JEDEC MO-216-BAL-1 (DEPOPULATED).
- $\triangle$  PAD 'F6' IS FOR PAD 'A1' CORNER INDICATION.

**280-BALL FLEX TAPE CHIP SCALE BGA, 0.80MM PITCH (CS280/CSG280)**