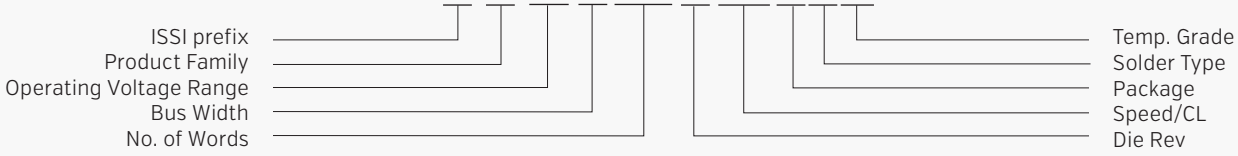
THE DATASHEET OF

IS42S16160B-7TLI-TR

DRAM Part Decoder

IS 46 DR 16 320 D-25D B L A2



- **Product Family**
  41 = Asynchronous
  42 = SDR Commercial/Industrial grade
  43 = DDR/DDR2/DDR3 Commercial/Industrial grade
  45 = SDR Automotive grade
  46 = DDR/DDR2/DDR3 Automotive grade

- **Operating Voltage Range**
  Asynchronous: Fast Page and EDO
  C = 5V
  LV = 3.3V

Synchronous
S = 3.3V SDR
SM/RM/VM = 3.3V/2.5V/1.8V mobile SDR
VS = 1.8V SDR
R = 2.5V DDR or 2.5V SDR
LR =1.8V mobile DDR (LPDDR)
DR = DDR2
LD = LPDDR2
TR = DDR3

- **Bus Width**
  8 = x8
  16 = x16
  32 = x32

- **No. of Words**
  100 = 1M
  200 = 2M
  400 = 4M
  800 = 8M
  160 = 16M
  320 = 32M
  640 = 64M
  128 = 128M
  256 = 256M
  512 = 512M

- **Die Rev.**
  A - Z

- **Speed**

-7	=	up to 143Mhz
-6	=	up to 166Mhz
-75	=	up to 133Mhz
-5	=	up to 200Mhz
-37	=	up to 266Mhz
-3	=	up to 333Mhz
-25	=	up to 400Mhz
-187	=	up to 533Mhz (DDR3 -1066)
-15	=	up to 667Mhz (DDR3 -1333)
-125	=	up to 800Mhz (DDR3-1600)
-107	=	up to 933 Mhz (DDR3-1866)
-093	=	up to 1066 Mhz (DDR3-2133)

- **CL (CAS Latency)**
  B = 3, C = 4, D = 5, E = 6,
  F = 7, G = 8, H = 9, J = 10,
  K = 11, L = 12, M = 13, N = 14
  (Not all speeds and CL's available for all products.)

- **Solder Type**
  (Blank) = Sn/Pb
  L = 100% matte Sn for non-BGA
  L = SnAgCu for BGA

- **Temp. Grade**
  Blank = Commercial Grade (0C to +70°C)
  I = Industrial Grade (-40C to +85°C)
  A1 = Automotive Grade (-40C to +85°C)
  A2 = Automotive Grade (-40C to +105°C)
  A25 = Automotive Grade (-40C to +115°C)
  Notes :
  1. Ambient temperature limits shown for most products.
  2. For DDR2 and DDR3, refer to the case temperature specifications.

- **Package**
  B= BGA
  CT = Copper TSOP
  T = TSOP
  BP = PoP BGA
  K = SOJ

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