

PACKAGING INFORMATION

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
RM41L232BPZT	Active	Production	LQFP (PZ) 100	90 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	RM41 L232BPZT
RM41L232BPZT.B	Active	Production	LQFP (PZ) 100	90 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	RM41 L232BPZT
TMS470R1A288PGEA	NRND	Production	LQFP (PGE) 144	60 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-	470R1A288PGEA TMS
TMS470R1A288PGEA.A	NRND	Production	LQFP (PGE) 144	60 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	See TMS470R1A288PGEA	470R1A288PGEA TMS
TMS470R1A288PGET	NRND	Production	LQFP (PGE) 144	60 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-	470R1A288PGET TMS
TMS470R1A288PGET.A	NRND	Production	LQFP (PGE) 144	60 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	See TMS470R1A288PGET	470R1A288PGET TMS
TMS470R1A288PGETR	NRND	Production	LQFP (PGE) 144	500 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-	470R1A288PGET TMS
TMS470R1A288PGETR.A	NRND	Production	LQFP (PGE) 144	500 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	See TMS470R1A288PGETR	470R1A288PGET TMS
TMS470R1A288PGETR.B	NRND	Production	LQFP (PGE) 144	500 LARGE T&R	-	Call TI	Call TI	See TMS470R1A288PGETR	
TMS470R1A288PZ-T	NRND	Production	LQFP (PZ) 100	90 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-	470R1A288PZ-T TMS
TMS470R1A288PZ-T.A	NRND	Production	LQFP (PZ) 100	90 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	See TMS470R1A288PZ-T	470R1A288PZ-T TMS
TMS470R1A384PGET	NRND	Production	LQFP (PGE) 144	60 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-	470R1A384PGET TMS
TMS470R1A384PGET.A	NRND	Production	LQFP (PGE) 144	60 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	See TMS470R1A384PGET	470R1A384PGET TMS
TMS470R1A384PZ-T	NRND	Production	LQFP (PZ) 100	90 null	Yes	NIPDAU	Level-3-260C-168 HR	-	470R1A384PZ-T TMS
TMS470R1A384PZ-T.A	NRND	Production	LQFP (PZ) 100	90 null	Yes	NIPDAU	Level-3-260C-168 HR	See TMS470R1A384PZ-T	470R1A384PZ-T TMS
TMS470R1A64PNT	NRND	Production	LQFP (PN) 80	119 null	Yes	NIPDAU	Level-3-260C-168 HR	-	470R1A64PNT TMS

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
TMS470R1A64PNT.A	NRND	Production	LQFP (PN) 80	119 null	Yes	NIPDAU	Level-3-260C-168 HR	See TMS470R1A64PNT	470R1A64PNT TMS
TMS470R1B1MPGEA	NRND	Production	LQFP (PGE) 144	60 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-	R1B1MPGEA TMS470
TMS470R1B1MPGEA.A	NRND	Production	LQFP (PGE) 144	60 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	See TMS470R1B1MPGEA	R1B1MPGEA TMS470
TMS470R1B1MPGEAR	NRND	Production	LQFP (PGE) 144	500 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-	R1B1MPGEA TMS470
TMS470R1B1MPGEAR.A	NRND	Production	LQFP (PGE) 144	500 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	See TMS470R1B1MPGEAR	R1B1MPGEA TMS470
TMS470R1B512PGET	NRND	Production	LQFP (PGE) 144	60 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-	R1B512PGET TMS470
TMS470R1B512PGET.A	NRND	Production	LQFP (PGE) 144	60 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	See TMS470R1B512PGET	R1B512PGET TMS470
TMS470R1B768PGET	NRND	Production	LQFP (PGE) 144	60 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-	AB768PGET TMS470
TMS470R1B768PGET.A	NRND	Production	LQFP (PGE) 144	60 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	See TMS470R1B768PGET	AB768PGET TMS470

⁽¹⁾ **Status:** For more details on status, see our [product life cycle](#).

⁽²⁾ **Material type:** When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.

⁽³⁾ **RoHS values:** Yes, No, RoHS Exempt. See the [TI RoHS Statement](#) for additional information and value definition.

⁽⁴⁾ **Lead finish/Ball material:** Parts may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

⁽⁵⁾ **MSL rating/Peak reflow:** The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.

⁽⁶⁾ **Part marking:** There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

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